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## ABSTRACT

This annotated bibliography identifies English language resources endorsed by all Western Canadian Protocol (WCP) jurisdictions implementing The Common Curriculum Framework for K-12 Mathematics Grade 10 to Grade 12. Resources in this annotated bibliography were selected through a collaborative review process based on their high level of fidelity with the rationale, philosophy, mathematical processes and outcomes of the Common Curriculum Framework. Resources underwent an intensive review and were found to be the most suitable of those submitted. During this review breadth, breadth and depth, depth, and teacher resources were identified for Pure Mathematics 10, 11, and 12, while depth and teacher resources were identified for selected parts of Applied Mathematics 10, 11, and 12. WCP Key Resources are high quality learning and teaching resources that best address the philosophy and content of the outcomes embodied in the Common Curriculum Framework. These include resources in a variety of media and formats with the following characteristics: (1) Breadth identifies learning resources with the highest possible level of fidelity to the general and specific outcomes published for a course; (2) Depth identifies learning resources that address a limited range of general and specific outcomes for a cluster or set of clusters but provide an especially effective learning experience for students; (3) Breadth and Depth identify comprehensive learning resources that provide both the breadth and depth dimensions for a particular course; and (4) Teacher Identified resources are those that assist teachers in the implementation of the Common Curriculum Framework and any courses derived from it. Each annotation includes series and title, resource designation, format, alternate format(s), cluster(s) grid, annotation, comments, cautions, system requirements, audience, course(s) grid, mathematical process(es) grid, and strand(s)/substrand(s) grid. (ASK)

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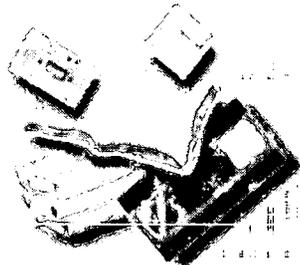
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ED 437 269



# Grade 10 to Grade 12 Mathematics Resources

## Annotated Bibliography



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SE063013

Western Canadian Protocol  
for Collaboration in Basic Education  
Common Curriculum Framework

Grade 10 to Grade 12  
Mathematics Resources

Annotated Bibliography

JULY 1999

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# INTRODUCTION

## Background

The Western Canadian Protocol for Collaboration in Basic Education Kindergarten to Grade 12 was signed in December 1993 by the ministers of education from Manitoba, Saskatchewan, Alberta, British Columbia, Yukon Territory and the Northwest Territories. *The Common Curriculum Framework for K-12 Mathematics*, for Kindergarten to Grade 9, was released in June 1995 and Grade 10 to Grade 12 was released in June 1996.

## Foreword

This annotated bibliography identifies the English language resources endorsed in April 1999, by all Western Canadian Protocol (WCP) jurisdictions implementing *The Common Curriculum Framework for K-12 Mathematics Grade 10 to Grade 12* (Common Curriculum Framework). For a complete listing of WCP approved resources for Grade 10 to Grade 12 mathematics, refer to this document and the May 1998 edition of the WCP Grade 10 to Grade 12 Mathematics Resources Annotated Bibliography, or visit the WCP web site at <<http://www.wcp.ca>>.

**Note:** The term “pure mathematics” is used in this document to emphasize the difference between pure and applied mathematics.

Resources in this annotated bibliography were selected, through a collaborative review process, based on their high level of fidelity with the rationale, philosophy, mathematical processes and outcomes of the Common Curriculum Framework. The resources have undergone an intensive review and were

found to be the most suitable of those submitted.

During this review, breadth, breadth and depth, depth, and teacher resources were identified for Pure Mathematics 10, 11 and 12, while depth and teacher resources were identified for selected parts of Applied Mathematics 10, 11 and 12.

## Acknowledgments

The Western Canadian Protocol jurisdictions would like to thank everyone involved in the review and selection processes to identify the best student and teacher resources to support the Kindergarten to Grade 12 mathematics framework. In 1999, 14 teachers and ministry staff were selected by the participating jurisdictions to review 212 items for Grade 10 to Grade 12, which were received in response to the invitation to publishers, producers and distributors for resource submissions.

Appreciation is also extended to all the school systems in the WCP jurisdictions that supported teachers participating in the review processes.

Finally, appreciation is extended to the publishers, producers and distributors who, in many cases, engaged in significant development to provide resources specifically designed for the Common Curriculum Framework.

## Future Calls for Resources

This second call for resources for Grade 10 to Grade 12 mathematics resulted in the approval of additional resources to supplement the initial set of resources that support the Common Curriculum Framework. However, the set of approved resources is still incomplete, with large gaps in the resource base to address some of the

courses and clusters. Future calls for resources will be issued in an attempt to complete the collection of WCP approved resources for Kindergarten to Grade 12 mathematics.

The next call for mathematics resources for Kindergarten to Grade 12 should be issued later in 1999, and additional resources should be added to the WCP resource collection in the spring of 2000.

### **Applied Mathematics Breadth Resources**

The first call for applied and pure mathematics Grade 10 to Grade 12 resources was issued on June 25, 1996. By the spring of 1997, there were concerns that there might not be any applied mathematics breadth resources developed and submitted for review by the February 2, 1998 submission deadline. Through correspondence with all relevant publishers, this assumption was confirmed. A "Request for Proposal" to develop applied mathematics breadth resources for grades 10, 11 and 12 was issued in the fall of 1997. The submissions received were evaluated and one company was selected. Addison-Wesley Longman Pearson Education is preparing an applied mathematics resource for each of grades 10, 11 and 12.

The timelines for developing the materials are as follows:

#### **Applied Mathematics – Grade 10**

- Final bound resource – June 1, 1999
- Teacher Resource Manual in three stages – August 1999, October 1999, December 1999

#### **Applied Mathematics – Grade 11**

- Entire manuscript – June 15, 1999

- Entire preprint document without colour – August 15, 1999
- Final bound resource – June 1, 2000

#### **Applied Mathematics – Grade 12**

- Entire preprint document without colour – June 1, 2000
- Final bound resource – June 1, 2001

### **Pure Mathematics Breadth Resources**

As a result of the two calls for mathematics resources for Grade 10 to Grade 12, breadth and depth resources were identified for Pure Mathematics 10 and 11, while one breadth resource was identified for Pure Mathematics 12. It is anticipated that additional breadth or breadth and depth resources for pure mathematics will be received as part of the subsequent calls for resources.

#### **Pure Mathematics – Grade 10**

Four multicomponent series are approved as either WCP breadth and depth or breadth resources for Pure Mathematics 10.

#### **Pure Mathematics – Grade 11**

One breadth and depth and one breadth resource are approved as WCP resources for Pure Mathematics 11.

#### **Pure Mathematics – Grade 12**

One breadth resource is approved for Pure Mathematics 12. It is anticipated that additional suitable submissions will be received as part of the next call for resources.

### **Organization**

The resources in this bibliography are organized by course, then alphabetically by title. Resources that are suitable for more than one course appear in each of the applicable courses, thus providing a

comprehensive list of materials for each course.

Annotations with resource descriptions have been written for each resource. Where material is deemed to be particularly useful for students with special needs or for small populations; e.g., learning disabled, gifted, this information is included in the *Audience* section of the annotation.

An alphabetical title listing at the end of the bibliography indicates the designated course(s) of each resource.

**Note:** In the annotations, Common Curriculum Framework is used to refer to *The Common Curriculum Framework for K–12 Mathematics Grade 10 to Grade 12: Western Canadian Protocol for Collaboration in Basic Education*.

### Alternate Format(s)

Some of the WCP approved resources are or may be available in alternate formats to address the needs of students who are visually impaired or print disabled. This information is included in the annotations.

### Pricing Information

The prices appearing in this document represent the estimated WCP prices to schools and should be firm until August 31, 2000.

These prices should be used as a guideline for purchase planning. They are applicable to all six participating jurisdictions (four provinces and two territories). The final selling prices for these resources may vary slightly in jurisdictions with book bureaus, depending upon jurisdictional negotiations. Confirmation of pricing should be obtained directly from your jurisdictional book bureau or redistribution centre, if applicable.

### Resource Category

All learning and teaching resources included in this annotated bibliography were approved by the Western Assistant Deputy Ministers' Steering Committee and designated as WCP Key Resources for the Common Curriculum Framework.

### Definitions

*Fidelity* is the degree to which the learning or teaching resource addresses the general and specific outcomes in the Common Curriculum Framework.

*WCP Key Resources* are high quality learning and teaching resources that best address the philosophy and content of the outcomes embodied in the Common Curriculum Framework. These include resources in a variety of media and formats, with the following characteristics:

- *Breadth* identifies learning resources with the highest possible level of fidelity with the general and specific outcomes published for a course.
- *Depth* identifies learning resources that address a limited range of general and specific outcomes for a cluster or set of clusters, but provide an especially effective learning experience for students.
- *Breadth and Depth* identifies comprehensive learning resources that provide both the *breadth* and *depth* dimensions for a particular course.
- *Teacher* identifies resources that assist teachers with the implementation of the Common Curriculum Framework and any courses derived from it.

## Criteria for the Selection of Learning and Teaching Resources

Resources in this annotated bibliography were selected according to the following criteria:

- *Content and Curriculum Fit* includes how effectively a learning or teaching resource supports any given learning outcome within a strand or substrand and meets student needs.
- *Instructional Design* includes the organization and presentation techniques; the methods used to introduce, develop and summarize concepts; the vocabulary level of the resource; and the suitability to student learning styles or to special audiences.
- *Technical Design* includes binding, type of print, quality of illustrations, durability and format. For software, such factors as hardware requirements, ease of navigation and robustness of programming are considered. For multimedia resources, such factors as pacing, quality of pictures/sound, user friendliness, use of special features for emphasis and interactivity are considered.
- *Social Considerations* includes screening for social concerns.

When selecting learning and teaching resources from this list, consideration should be given to how the resources meet the learning needs of students and to the perspectives of the local community.

Information on a resource may be obtained from the descriptions in this bibliography, from the distributor, from published reviews or colleagues, and from an examination of the resource.

# SAMPLE ANNOTATION



**WESTERN CANADIAN PROTOCOL**  
COMMON CURRICULUM FRAMEWORK

**PURE MATHEMATICS 11**  
**LEARNING AND TEACHING RESOURCES**

**Annotation:**  
This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

**Comments:**  
• The ability to print graphs is an advantage.  
• The ability to blend colours is an advantage, when graphing systems of inequalities.  
• Limited on screen help is provided.  
• Inequalities of the form  $<$  and  $\leq$  cannot be distinguished from the display.

**System Requirements:**  
• Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

**Audience:** General

**Course(s):**

	10	11	12
Applied Mathematics	✓	✓	✓
Pure Mathematics	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

**Physical Characteristics:**  
Two 3.5" discs and a manual—approximately 150 pages—all in a 3-ring binder

**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**  
• Access to Publisher's Disks for Production

**Cluster(s):**

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓

Common	C1	C2	C3	C4	C5	C6
		✓				

Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
			✓			✓		✓	

**Publisher:** Pedagoguery Software      **Copyright:** 1998      **Title:** GraEq (Macintosh Version 2.06)      **Est. WCP Price(s):** \$94.50 (Single User)  
**Distributor:** Pedagoguery Software      **1998**      **GraEq (Macintosh Version 2.06)**      \$300.00 (Up to 30 computer site licence)  
 4446 Lazelle Avenue                                         \$350.00 (31–40 computer site licence)  
 TERRACE, BC, CANADA V8G 1R8                                         \$400.00 (41–50 computer site licence)  
**Telephone:** (250) 638-8606                                                   \$450.00 (51–60 computer site licence)  
**Fax:** (250) 638-8606                                                        \$500.00 (61 or more computer site licence)  
**Internet:** http://www.cafe.neu/peda

- **Series and Title:** series names are indicated by italics.
  - The “New” identifies what is new for 1999. It may be a new resource or a new component in a multicomponent resource.
- **Resource Designation:** indicates breadth, depth, breadth and depth, or teacher resource.
- **Format:** is represented by an icon, such as:
 



CD-ROM



Kit



Print



Software
- **Alternate Format(s):** indicates which resources are or could be available in alternate formats for students who are visually impaired or print disabled.
- **Cluster(s) Grids:** identify the cluster(s) of outcomes that are addressed in the resource.
- **Annotation:** provides an overview of the resource.
- **Comments:** provide additional information about the resource.

- **Cautions:** alert teachers to potentially sensitive issues / community concerns, or concerns about curriculum fit.
- **System Requirements:** specify the type of hardware required to run the software, and any other system information.
- **Audience:**
  - General: the majority of students.
  - Learning Disabled (LD): students who have difficulty in processing and understanding spoken, written or visual information.
  - Gifted: students who give evidence of high performance capability in areas such as intellect, creativity, or specific academic disciplines.
- **Course(s) Grid:** identifies the course(s) for which the resource is most suitable.
- **Mathematical Process(es) Grid:** identifies those processes students will use when working through the activities provided in the resource.
- **Strand(s)/Substrand(s) Grid:** allows teachers to see, readily, the fit between the Common Curriculum Framework strands/substrands and the outcomes covered in the resource.



Addison-Wesley Applied Mathematics (Western Canadian Edition)

- Applied Mathematics 10: Source Book
- Applied Mathematics 10: Project Book

**Annotation:**

• *Source Book*

The source book has seven chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter contains an overview that describes for students what mathematics they will be learning. A chapter project, usually requiring research, and a hands-on activity are introduced early in each chapter and revisited throughout the chapter. A series of tutorials is used to develop specific mathematical concepts. The typical tutorial consists of a section for practising prior skills, one or more investigations, exercises, and sections for discussing and communicating ideas. An inquiry approach is used to discover concepts in the development of the outcomes. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource. A chain link icon is used in the source book to identify links to projects in the project book and to resources in the source book. Each chapter ends with a "Consolidating Your Skills" section that consists of an activity, review problems and a summary of the chapter project that contains illustrations of actual student work. Resources at the end of the source book include utilities, a student reference, answers and an index.

• *Project Book*

This resource consists of 20 projects for students, in addition to the chapter projects in the source book. The projects provide an opportunity to apply mathematics in a new context. Each project consists of several components: an outline of the purpose, a materials list, background information, a link to the required skills developed in the student source book, an exploration of the basic mathematical concepts underlying the project application, suggestions for presenting the project results, and a description of related career opportunities. The projects are open-ended and provide opportunities for problem solving, multiple strategies and group work.

**Comments:**

• In order to cover all of the outcomes for Applied Mathematics 10, derived from the Common Curriculum Framework, it is essential that the particular projects noted in the project book are completed by students.

**Cautions:**

• References are made to specific Internet web sites, including one mathematics site being maintained by Addison-Wesley Longman Pearson Education. These web sites, including the Addison-Wesley Longman Pearson Education site, are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the sites contain accurate information and information that meets the criterion of social considerations.

**Audience:** General

**Breadth Resource**

**Author(s):**

Alexander, R. et al.

**Physical Characteristics:**

- Source Book—464 pages, hardcover
- Project Book—100 pages, softcover



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓	✓							

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓	✓			

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>			

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	N/A	N/A	✓	✓	✓	N/A	✓	N/A

**Publisher:** Addison Wesley Longman Ltd.  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** ISBN:  
 1999 0201395851  
 1999 020139586X

**Component Titles:**  
 • Applied Mathematics 10: Source Book  
 • Applied Mathematics 10: Project Book

**Est. WCP Price(s):**  
 \$55.00 (Source Book and Project Book Package)

**BEST COPY AVAILABLE**



*Balanced Assessment for the Mathematics Curriculum (High School)*

- Balanced Assessment: High School Assessment: Package 1
- Balanced Assessment: Advanced High School Assessment: Package 1

**Teacher Resource**

**Author(s):**  
MacDonell, A.; Anderson, C. (eds.)

**Physical Characteristics:**  
 • Balanced Assessment: High School Assessment: Package 1–215 pages, softcover  
 • Balanced Assessment: Advanced High School Assessment: Package 1–205 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓	✓							

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

These books present an alternative approach to assessment, through projects that integrate several of the WCP outcomes at once. The books are most suitable for use in Grade 10 mathematics classes. Projects include objectives, teacher notes, student handouts and examples of student work. Teacher notes include rubrics that make it easier to mark each of the projects.

**Comments:**

- These resources use rubrics as an evaluation strategy.
- These resources will give teachers some good ideas on how to address the question: "How should we mark projects in Math?"
- These resources provide for an alternative assessment of outcomes—done through projects, not tests.

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visual
✓	✓	✓	✓	✓		✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓	✓	✓		✓	✓

**Publisher:** Dale Seymour Publications  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright: ISBN:**  
 1999 076900069X  
 1999 076900072X

**Component Titles:**  
 • Balanced Assessment: High School Assessment: Package 1  
 • Balanced Assessment: Advanced High School Assessment: Package 1

**Est. WCP Price(s):**  
 \$44.09

\$44.09



*The Geometer's Sketchpad*

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)



**Annotation:**

This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 11, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 11. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

**Depth Resource**

**Physical Characteristics:**

- Macintosh Version—Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version—Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette



**Comments:**

- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed, or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

**System Requirements:**

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

**Audience:** General

**Course(s):**

	10	11	12
Applied Mathematics	✓	✓	
Pure Mathematics	✓	✓	

**Cluster(s):**

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓		✓						

Common	C1	C2	C3	C4	C5	C6
	✓				✓	

Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
					✓				

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

**Publisher:** Spectrum Educational Supplies Ltd.  
**Distributor:** Spectrum Educational Supplies Ltd.  
 125 Mary Street  
 AURORA, ON, CANADA L4G 1G3  
**Telephone:** (800) 668-0600; (905) 841-0600  
**Fax:** (800) 668-0602; (905) 727-6265  
**Internet:** <http://www.spectrumed.com>

**Copyright:**  
 1995  
 1995

**Component Titles:**  
 • The Geometer's Sketchpad (Macintosh Version 3) \$274.95  
 • The Geometer's Sketchpad (Windows Version 3.03) \$274.95

**Est. WCP Price(s):**



GrafEq (Macintosh Version 2.06)

**Depth Resource**

**Physical Characteristics:**

Two 3.5" discs and a manual—approximately 150 pages—all in a 3-ring binder



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

**Annotation:**

This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

**Comments:**

- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form  $<$  and  $\leq$  cannot be distinguished from the display.

**System Requirements:**

- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

**Publisher:** Pedagoguery Software  
**Distributor:** Pedagoguery Software  
 4446 Lazelle Avenue  
 TERRACE, BC, CANADA V8G 1R8  
**Telephone:** (250) 638-8606  
**Fax:** (250) 638-8606  
**Internet:** <http://www.cafe.net/peda>

**Copyright:** 1998  
**Title:** GrafEq (Macintosh Version 2.06)

**Est. WCP Price(s):**  
 \$94.50 (Single User)  
 \$300.00 (Up to 30 computer site licence)  
 \$350.00 (31-40 computer site licence)  
 \$400.00 (41-50 computer site licence)  
 \$450.00 (51-60 computer site licence)  
 \$500.00 (61 or more computer site licence)



*Explorations Series*  
Graphing Calculator Activities for  
Enriching Middle School  
Mathematics

**Teacher Resource**

**Author(s):**  
Browning, C.A.; Channell, D.E.

**Physical Characteristics:**  
142 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓				✓	✓

**Annotation:**

This resource is a collection of twelve activities using the TI-80, -82 and -83 graphing calculators. Activities require students to gather and organize data and explain their understanding of processes. Instructions for the use of the calculator accompany every step. Activities address outcomes in the Patterns and Relations, and Statistics and Probability strands of the Common Curriculum Framework. Most activities are related to Applied Mathematics 10.

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309159

**Title:** Graphing Calculator Activities for Enriching Middle School Mathematics

**Est. WCP Price(s):** \$24.48



*Green Globes & Graphing Equations*

- Green Globes & Graphing Equations (Macintosh Version 2.3)
- Green Globes & Graphing Equations (Windows Version 2.3)

**Depth Resource**

**Physical Characteristics:**

- Macintosh Version—One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder
- Windows Version—One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓				✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓		✓	✓		

**Annotation:**

This resource graphs different forms of linear, quadratic, polynomial and trigonometric relations. A second program provides a graph and requires the student to enter the equation. There are also two games that act as motivational tools. Five graphs can be displayed simultaneously. The resource is user-friendly.

**Comments:**

- A teacher's guide accompanies the disc and provides ideas and worksheets.
- Natural log is the only logarithm that can be graphed, and  $y = e^x$  is the only exponential function that can be graphed.
- Asymptotes are not shown.
- Intercepts are approximations.

**System Requirements:**

- Macintosh: System 6.0.5 or higher (System 7 recommended), 1 MB RAM.
- Windows 3.1: Windows 3.1, 486/25 MHz or better, 2 MB RAM; 256 colour monitor.
- Windows 95: 486DX/50 MHz or higher (Pentium recommended), 4 MB RAM, 256 colour monitor.

**Audience:** General

**Course(s):**

	<b>10</b>	<b>11</b>	<b>12</b>
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

**Publisher:** Sunburst Communications

**Distributor:** Gage Educational Publishing Co.  
164 Commander Boulevard  
SCARBOROUGH, ON, CANADA M1S 3C7

**Telephone:** (800) 667-1115 ; (416) 293-8464

**Fax:** (416) 293-0846

**Internet:** <http://www.comerstone.gagepub.ca>

**Copyright:**

1996

1997

**Component Titles:**

- Green Globes & Graphing Equations (Macintosh Version 2.3)
- Green Globes & Graphing Equations (Windows Version 2.3)

**Est. WCP Price(s):**

\$129.95

\$129.95

BEST COPY AVAILABLE



**An Introduction to the TI-82  
 Graphing Calculator**

**Teacher Resource**

**Author(s):**  
 Govatos, M.

**Physical Characteristics:**  
 48 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

**Comments:**

- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

**Audience:** Teacher

**Course(s):**

	<b>10</b>	<b>11</b>	<b>12</b>
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Publisher:** Frank Schaffer Publications Inc.

**Distributor:** Frank Schaffer Publications Inc.  
 23740 Hawthorne Boulevard  
 TORRANCE, CA, USA 90505

**Telephone:** (800) 609-1735

**Fax:** (800) 837-7260 ; (310) 794-5468

**Internet:** <http://www.frankschaffer.com/frmtpage.html>

**Copyright:** ISBN:

1998 0768200067

**Title:**

An Introduction to the TI-82 Graphing Calculator

**Est. WCP Price(s):**

\$18.95 (US)



*Explorations Series*

**Modeling Motion: High School Math Activities with the CBR**

**Depth Resource**

**Author(s):**  
Antinone, L.; Gough, S.

**Physical Characteristics:**  
114 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓			✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓				✓			

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Annotation:**

This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

**Comments:**

- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** ISBN:  
 1997 1886309140

**Title:**  
 Modeling Motion: High School Math Activities with the CBR

**Est. WCP Price(s):**  
 \$16.83



*Explorations Series*  
Statistics Handbook for the TI-83

**Annotation:**

This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

**Teacher Resource**

**Author(s):**  
Morgan, L.

**Physical Characteristics:**  
157 pages, softcover



**Audience:** Teacher

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Course(s):**

	<b>10</b>	<b>11</b>	<b>12</b>
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309078  
**Title:** Statistics Handbook for the TI-83

**Est. WCP Price(s):** \$23.18



*Explorations Series*

Using the TI-86 in Collegiate Mathematics: A Tutorial

**Teacher Resource**

**Author(s):**  
Dodd, F.; Cruthirds, J.

**Physical Characteristics:**  
177 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

**Comments:**

- About 50% of this resource is extraneous to the WCP.

**Audience:** Teacher

**Course(s):**

	<b>10</b>	<b>11</b>	<b>12</b>
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
		✓			✓	

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309116

**Title:** Using the TI-86 in Collegiate Mathematics: A Tutorial

**Est. WCP Price(s):** \$22.44



**A Visual Approach to Algebra**

**Teacher Resource**

**Author(s):**  
Van Dyke, F.

**Physical Characteristics:**  
151 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓					

**Annotation:**

This is a supplementary activity book for clusters C1 and C2. An investigative approach to learning is used to introduce concepts related to the relationships between such things as graphing, scale, data and algebra. This resource can be used as an introduction or extension to many of the outcomes in clusters C1 and C2. Student activity worksheets and teacher note pages are given for all activities. The resource includes the use of a graphing calculator for various activities.

**Comments:**

- The activities could be extended easily to meet outcomes related to function notation, domain and range, direct variation, midpoint, and irrational number representation.
- The imperial system is used throughout the resource for problem-solving situations.
- The activities are repetitive; teachers would not use all of them, as there are many activities that meet a single outcome.

**Audience:** General/Gifted/LD (Mild)

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

**Publisher:** Dale Seymour Publications

**Distributor:** Addison-Wesley Longman Pearson Education  
26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8

**Telephone:** (800) 387-8028; (416) 447-5101

**Fax:** (800) 465-0536; (416) 443-0948

**Internet:** <http://www.awl.com/canada>

**Copyright:** 1998

**ISBN:** 1572324414

**Title:**

A Visual Approach to Algebra

**Est. WCP Price(s):**

\$20.92

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*Addison-Wesley Mathematics 11*  
*(Western Canadian Edition)*

- Template and Data Kit  
(Macintosh/Windows Version 1.0)

**Depth Resource**

**Author(s):**  
Alexander, R.; Kelly, B.

**Physical Characteristics:**  
• Template and Data Kit—Teacher's Guide—152 pages, coilbound—and a CD-ROM (for ClarisWorks, Macintosh 2.0, Windows 1.0, Microsoft Works 3.0, Microsoft Office 97 and Windows 95)



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
				✓	✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
			✓	✓	✓				

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓	✓	✓			

**Annotation:**

- *Template and Data Kit*  
This resource includes five extensive databases—hockey greats, transportation, aircraft, movies and real estate; templates for the spreadsheet activities found in the student text; and a teacher's guide. The teacher's guide contains spreadsheet and database tutorials, additional technology activities, and teaching notes and answers. The activities address a wide variety of outcomes.

**System Requirements:**

- *Template and Data Kit*
- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, ClarisWorks.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>		✓	
<b>Pure Mathematics</b>			

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

**Publisher:** Addison-Wesley Longman Ltd.  
**Distributor:** Addison-Wesley Longman Pearson Education  
26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1998  
**ISBN:** 0201395495

**Component Titles:**  
• *Template and Data Kit*  
(Macintosh/Windows Version 1.0)

**Est. WCP Price(s):**  
\$135.15



*The Geometer's Sketchpad*

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)



**Annotation:**

This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 11, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 11. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

**Depth Resource**

**Physical Characteristics:**

- Macintosh Version—Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version—Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette



**Comments:**

- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed, or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

**System Requirements:**

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

**Audience:** General

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓		✓						
<b>Common</b>	C1	C2	C3	C4	C5	C6			
	✓				✓				
<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
					✓				

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	
<b>Pure Mathematics</b>	✓	✓	

**Mathematical Process(es):**

<b>Communication</b>	<b>Connections</b>	<b>Estimation and Mental Math</b>	<b>Problem Solving</b>	<b>Reasoning</b>	<b>Technology</b>	<b>Visualization</b>
			✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

**Publisher:** Spectrum Educational Supplies Ltd.  
**Distributor:** Spectrum Educational Supplies Ltd.  
 125 Mary Street  
 AURORA, ON, CANADA L4G 1G3  
**Telephone:** (800) 668-0600; (905) 841-0600  
**Fax:** (800) 668-0602; (905) 727-6265  
**Internet:** <http://www.spectrumed.com>

**Copyright:**  
 1995  
 1995

**Component Titles:**  
 • The Geometer's Sketchpad (Macintosh Version 3) \$274.95  
 • The Geometer's Sketchpad (Windows Version 3.03) \$274.95

**Est. WCP Price(s):**



GrafEq (Macintosh Version 2.06)

**Depth Resource**

**Physical Characteristics:**

Two 3.5" discs and a manual—  
approximately 150 pages—all in a 3-ring  
binder



**Availability in Alternate Format(s) for  
Students Who Are Visually Impaired or Print  
Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

**Annotation:**

This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

**Comments:**

- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form  $<$  and  $\leq$  cannot be distinguished from the display.

**System Requirements:**

- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

**Publisher:** Pedagoguery Software  
**Distributor:** Pedagoguery Software  
 4446 Lazelle Avenue  
 TERRACE, BC, CANADA V8G 1R8  
**Telephone:** (250) 638-8606  
**Fax:** (250) 638-8606  
**Internet:** <http://www.cafe.net/peda>

**Copyright:**  
1998

**Title:**  
GrafEq (Macintosh Version 2.06)

**Est. WCP Price(s):**  
 \$94.50 (Single User)  
 \$300.00 (Up to 30  
 computer site licence)  
 \$350.00 (31-40  
 computer site licence)  
 \$400.00 (41-50  
 computer site licence)  
 \$450.00 (51-60  
 computer site licence)  
 \$500.00 (61 or more  
 computer site licence)



**An Introduction to the TI-82  
Graphing Calculator**

**Teacher Resource**

**Author(s):**  
Govatos, M.

**Physical Characteristics:**  
48 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

**Comments:**

- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Publisher:** Frank Schaffer Publications Inc.  
**Distributor:** Frank Schaffer Publications Inc.  
 23740 Hawthorne Boulevard  
 TORRANCE, CA, USA 90505  
**Telephone:** (800) 609-1735  
**Fax:** (800) 837-7260 ; (310) 794-5468  
**Internet:** <http://www.frankschaffer.com/frntpage.html>

**Copyright: ISBN:**  
 1998 0768200067

**Title:**  
 An Introduction to the TI-82 Graphing Calculator

**Est. WCP Price(s):**  
 \$18.95 (US)



*Explorations Series*  
**Modeling Motion: High School Math Activities with the CBR**

**Depth Resource**

**Author(s):**  
 Antinone, L.; Gough, S.

**Physical Characteristics:**  
 114 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓			✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓				✓			

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Annotation:**

This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

**Comments:**

- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309140

**Title:** Modeling Motion: High School Math Activities with the CBR

**Est. WCP Price(s):** \$16.83



*Explorations Series*  
**Statistics Handbook for the TI-83**

**Teacher Resource**

**Author(s):**  
Morgan, L.

**Physical Characteristics:**  
157 pages, softcover



**Annotation:**

This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

**Audience:** Teacher

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309078

**Title:** Statistics Handbook for the TI-83

**Est. WCP Price(s):** \$23.18



*Explorations Series*  
Using the TI-86 in Collegiate  
Mathematics: A Tutorial

**Teacher Resource**

**Author(s):**  
Dodd, F.; Cruthirds, J.

**Physical Characteristics:**  
177 pages, softcover



**Annotation:**  
This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

**Comments:**  
• About 50% of this resource is extraneous to the WCP.

**Audience:** Teacher

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309116

**Title:** Using the TI-86 in Collegiate Mathematics: A Tutorial

**Est. WCP Price(s):** \$22.44



Exploring Advanced Algebra with the T1-83

**Annotation:**

This resource contains exercises and investigations that supplement the following topics: sequences, fractals, combinatorics, probability, linear systems, matrices and linear programming.

**Depth Resource**

**Audience:** General

**Author(s):**

Kelly, B.

**Physical Characteristics:**

80 pages, coilbound



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
						✓			

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓					✓		

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			✓
<b>Pure Mathematics</b>	✓		✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						✓

**Publisher:** Addison-Wesley Longman Ltd.  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1998  
**ISBN:** 1895997100

**Title:** Exploring Advanced Algebra with the T1-83

**Est. WCP Price(s):** \$15.71

BEST COPY AVAILABLE



GrafEq (Macintosh Version 2.06)

**Depth Resource**

**Physical Characteristics:**

Two 3.5" discs and a manual—  
approximately 150 pages—all in a 3-ring  
binder



**Availability in Alternate Format(s) for  
Students Who Are Visually Impaired or Print  
Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

**Annotation:**

This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

**Comments:**

- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form  $<$  and  $\leq$  cannot be distinguished from the display.

**System Requirements:**

- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

**Publisher:** Pedagoguery Software

**Distributor:** Pedagoguery Software  
4446 Lazelle Avenue  
TERRACE, BC, CANADA V8G 1R8

**Telephone:** (250) 638-8606

**Fax:** (250) 638-8606

**Internet:** <http://www.cafe.net/peda>

**Copyright:**  
1998

**Title:**  
GrafEq (Macintosh Version 2.06)

**Est. WCP Price(s):**  
\$94.50 (Single User)  
\$300.00 (Up to 30  
computer site licence)  
\$350.00 (31-40  
computer site licence)  
\$400.00 (41-50  
computer site licence)  
\$450.00 (51-60  
computer site licence)  
\$500.00 (61 or more  
computer site licence)



**An Introduction to the TI-82  
Graphing Calculator**

**Teacher Resource**

**Author(s):**  
Govatos, M.

**Physical Characteristics:**  
48 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Annotation:**

This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

**Comments:**

- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

**Publisher:** Frank Schaffer Publications Inc.  
**Distributor:** Frank Schaffer Publications Inc.  
23740 Hawthorne Boulevard  
TORRANCE, CA, USA 90505

**Telephone:** (800) 609-1735

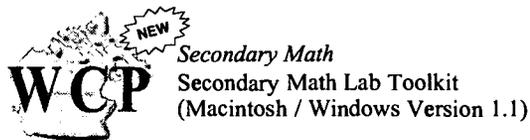
**Fax:** (800) 837-7260 ; (310) 794-5468

**Internet:** <http://www.frankschaffer.com/frmpage.html>

**Copyright: ISBN:**  
1998 0768200067

**Title:**  
An Introduction to the TI-82 Graphing Calculator

**Est. WCP Price(s):**  
\$18.95 (US)



**Depth Resource**

**Physical Characteristics:**  
 One CD-ROM and a User's Guide—128 pages, bound—all in a 3-ring binder



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
								✓	✓

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓		✓	✓	✓	✓	✓	✓

**Annotation:**

The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

**Comments:**

- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representation is very limited and is harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

**System Requirements:**

- Macintosh: minimum of a Macintosh LC II, with 12 MB RAM total and System 7.0 or higher, 256 colour 13-inch monitor, 6 MB hard disk space.
- Windows 3.1: Windows 3.1 or 3.11, 486/33 MHz or higher, 12 MB RAM, VGA 13-inch 256 colour monitor, 6 MB hard disk space.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive, VGA 13-inch 256 colour monitor, 6 MB hard disk space. The use of a Pentium processor with 16 MB RAM is recommended.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓		✓	✓	✓	✓

**Publisher:** Sunburst Communications  
**Distributor:** Gage Educational Publishing Co.  
 164 Commander Boulevard  
 SCARBOROUGH, ON, CANADA M1S 3C7  
**Telephone:** (800) 667-1115; (416) 293-8464  
**Fax:** (416) 293-0846  
**Internet:** <http://www.cornerstone.gagepub.ca>

**Copyright:** 1998  
**ISBN:** 0134330528 (User's Guide)  
**Title:** Secondary Math Lab Toolkit (Macintosh/Windows Version 1.1)

**Est. WCP Price(s):** \$129.95



*Explorations Series*  
Statistics Handbook for the TI-83

**Annotation:**

This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

**Teacher Resource**

**Author(s):**  
Morgan, L.

**Physical Characteristics:**  
157 pages, softcover



**Audience:** Teacher

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Course(s):**

	<b>10</b>	<b>11</b>	<b>12</b>
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309078

**Title:** Statistics Handbook for the TI-83

**Est. WCP Price(s):** \$23.18

**BEST COPY AVAILABLE**



*Explorations Series*  
Using the TI-86 in Collegiate  
Mathematics: A Tutorial

**Teacher Resource**

**Author(s):**  
Dodd, F.; Cruthirds, J.

**Physical Characteristics:**  
177 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

**Comments:**

- About 50% of this resource is extraneous to the WCP.

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309116

**Title:** Using the TI-86 in Collegiate Mathematics: A Tutorial

**Est. WCP Price(s):** \$22.44



Acces: *The Teacher's Database*

- Acces: The Teacher's Database (Macintosh Version 3.33)
- Acces: The Teacher's Database (DOS/Windows Version 3.32)
- Canadian Math Database (Grades 8-10) (Catalog)

**Teacher Resource**

**Physical Characteristics:**

- Macintosh Version 3.33—One 3.5" Macintosh disc; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- DOS/Windows Version 3.32—Three 3.5" DOS/Windows discs; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Canadian Math Database (Grades 8-10) (Catalog)—416 pages, 3-ring binder; one 3.5" disc (Macintosh Version 1.0D) and one 3.5" disc (DOS/Windows Version 1.0D)



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
	✓	✓							

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓				

**Annotation:**

This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more conceptual blueprint. The technology assumed is that of the scientific calculator rather than the graphing calculator.

**Comments:**

- A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

**Cautions:**

- The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
- Windows 3.1 installations require 32-bit extensions before they run.

**System Requirements:**

- Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended).
- Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB.

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓		✓		

**Publisher:** EducAide Software  
**Distributor:** EducAide Software  
 3065 Richmond Parkway, Suite 102  
 RICHMOND, CA, USA 94806  
**Telephone:** (800) 669-9405 ; (510) 222-0600  
**Fax:** (510) 222-0165  
**Internet:** <http://www.educaide.com>

**Copyright:**  
 1997  
 1997  
 1998

**Component Titles:**  
 • Acces: The Teacher's Database (Macintosh Version 3.33) \$495.00 (US)  
 • Acces: The Teacher's Database (DOS/Windows Version 3.32) \$595.00 (US)  
 • Canadian Math Database (Grades 8-10) (Catalog) \$225.00 (US)



*Addison-Wesley Mathematics 10*  
*(Western Canadian Edition)*

- Student Text
- Independent Study Guide
- Teacher's Resource Book (includes CD-ROM)
- Template and Data Kit (CD-ROM Version 1.0)
- Acces Exercise Database (Macintosh/Windows Version 1.0A)



**Breadth and Depth Resource**

**Author(s):**

Alexander, R. et al.

**Physical Characteristics:**

- Student Text—651 pages, hardcover
- Independent Study Guide—138 pages, softcover
- Teacher's Resource Book—Includes 11 booklets—approximately 400 pages—and one CD-ROM, in a 3-ring binder
- Template and Data Kit—Teacher's Guide, 154 pages, coilbound; and one CD-ROM (for ClarisWorks, Macintosh 2.0, Windows 1.0, Microsoft Works 3.0, Microsoft Office 97 and Windows 95)
- Acces Exercise Database—One CD-ROM and 257 pages, all in a 3-ring binder



**Annotation:**

The resource package closely maps the content of the Common Curriculum Framework. The framework's mathematical processes are embedded throughout the resource. A conscientious effort was employed to relate the mathematical concepts developed to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. Icons and beadings are the primary means of navigation through the student text.

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and open-ended questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the text. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are highlighted through the use of icons in examples, explanations and activities.

• *Student Text*

The text has nine chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter focuses on a connection problem, entitled "Mathematical Modelling." Relevant mathematical material either precedes the problem, or follows the problem, depending on the chapter. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource. Further attention to the mathematical processes is found in the other components of the resource.

• *Independent Study Guide*

This resource provides students with additional examples and explanations to supplement the material in the main student resource. An introductory chapter helps the student develop efficient study skills. For the other nine chapters, which parallel the chapters of the student text, additional explanations, cross-referenced self-tests, mini-glossaries and overviews provide additional assistance to the student. Solutions to the self-tests included in the independent study guide are given at the back of the guide in short form, and in more extended form on a CD-ROM included in the teacher's resource book.

• *Teacher's Resource Book*

The teacher's resource book contains comprehensive teaching notes for each section of the student text, and blackline masters, as well as reinforcement, extension, enrichment and assessment activities. A graphing calculator handbook and reproducible graphing calculator activities are included. A CD-ROM with solutions to the student text and independent study guide is part of the teacher's resource book.

• *Template and Data Kit*

This resource includes four extensive databases—weather, helicopters, Olympic Summer Games and health; templates for the spreadsheet activities found in the student text; and a teacher's guide. The teacher's guide contains spreadsheet and database tutorials, additional technology activities, and teaching notes and answers. The activities address a wide variety of outcomes.

• *Acces Exercise Database*

This is an electronic database of over 2400 multiple-choice questions. It follows the Addison-Wesley Mathematics 10 (Western Canadian Edition) student text, section by section. It requires the Acces program. A print version of all the questions accompanies the CD-ROM.

**Comments:**

- The student resource attempts to incorporate the mathematical processes and the philosophy of the Common Curriculum Framework through the use of appropriate section headings and icons.
- In each of the chapters of the teacher resource there is cross-referencing of the mathematical processes to the materials being presented to the students. Emphasis given to technological solutions is most apparent in the teacher resource.
- Exercises are split into A, B and C levels. Students who only do the A exercises will not have enough exposure to the mathematical processes.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resource effectively. These are not supplied with the resource.
- In the Acces exercise database, the multiple-choice responses can be eliminated if just the question is desired. The questions are divided into chapters and sections that mirror the student text.

**Cautions:**

- References are made in both the student and the teacher materials to specific Internet web sites, including one mathematics site being maintained by Addison-Wesley Longman. **These web sites, including Addison-Wesley Longman's own site, are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations.**
- In the treatment of the outcomes related to right-angled trigonometry, there is material in the student resource that relates only to the outcomes incorporated in the Common Curriculum Framework at the Grade 9 level.
  - The template and data kit can only be used with ClarisWorks, Microsoft Works or Microsoft Excel/Access when used in a Windows 95 environment. In a Windows 3.1 environment, only ClarisWorks can be used.

*Continued*

**System Requirements:**

Template and Data Kit

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, ClarisWorks.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

Access Exercise Database

- Macintosh: System 7.1 or higher, LC III (040 25 MHz recommended), 4 MB RAM (8 MB recommended), CD drive.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

**Audience:** General

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓	✓			

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
	✓	✓							

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	N/A	✓	✓

**Publisher:** Addison-Wesley  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** ISBN:  
 1998 0201346192  
 1998 0201346206  
 1998 0201346214  
 1998 0201346230  
 1999 0201512815 (pkg.)

**Component Titles:**  
 • Student Text  
 • Independent Study Guide  
 • Teacher's Resource Book (includes CD-ROM)  
 • Template and Data Kit (Teacher's Guide) (CD-ROM Version 1.0)  
 • Access Exercise Database (Macintosh/Windows Version 1.0A)

**Est. WCP Price(s):**  
 \$49.95  
 \$5.95  
 \$119.95  
 \$119.95  
 \$126.00



*Balanced Assessment for the Mathematics Curriculum (High School)*

- Balanced Assessment: High School Assessment: Package 1
- Balanced Assessment: Advanced High School Assessment: Package 1

**Teacher Resource**

**Author(s):**  
MacDonell, A.; Anderson, C. (eds.)

**Physical Characteristics:**

- Balanced Assessment: High School Assessment: Package 1—215 pages, softcover
- Balanced Assessment: Advanced High School Assessment: Package 1—205 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓	✓							

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓	✓	✓		✓	✓

**Annotation:**

These books present an alternative approach to assessment, through projects that integrate several of the WCP outcomes at once. The books are most suitable for use in Grade 10 mathematics classes. Projects include objectives, teacher notes, student handouts and examples of student work. Teacher notes include rubrics that make it easier to mark each of the projects.

**Comments:**

- These resources use rubrics as an evaluation strategy.
- These resources will give teachers some good ideas on how to address the question: "How should we mark projects in Math?"
- These resources provide for an alternative assessment of outcomes—done through projects, not tests.

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

**Publisher:** Dale Seymour Publications  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** ISBN:  
 1999 076900069X  
 1999 076900072X

**Component Titles:**

- Balanced Assessment: High School Assessment: Package 1
- Balanced Assessment: Advanced High School Assessment: Package 1

**Est. WCP Price(s):**  
 \$44.09  
 \$44.09



Exploring Advanced Algebra with the  
 TI-83

**Annotation:**

This resource contains exercises and investigations that supplement the following topics: sequences, fractals, combinatorics, probability, linear systems, matrices and linear programming.

**Depth Resource**

**Audience:** General

**Author(s):**  
 Kelly, B.

**Physical Characteristics:**  
 80 pages, coilbound



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
						✓			

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓					✓		

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			✓
<b>Pure Mathematics</b>	✓		✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						✓

**Publisher:** Addison-Wesley Longman Ltd.  
**Distributor:** Addison-Wesley Longman Pearson  
 Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1998  
**ISBN:** 1895997100

**Title:** Exploring Advanced Algebra with the TI-83

**Est. WCP Price(s):** \$15.71



*The Geometer's Sketchpad*

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)



**Annotation:**

This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 11, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 11. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

**Depth Resource**

**Physical Characteristics:**

- Macintosh Version—Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version—Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette



**Comments:**

- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed, or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

**System Requirements:**

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

**Audience:** General

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓		✓						

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓				✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
					✓				

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	
<b>Pure Mathematics</b>	✓	✓	

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

**Publisher:** Spectrum Educational Supplies Ltd.  
**Distributor:** Spectrum Educational Supplies Ltd.  
 125 Mary Street  
 AURORA, ON, CANADA L4G 1G3  
**Telephone:** (800) 668-0600; (905) 841-0600  
**Fax:** (800) 668-0602; (905) 727-6265  
**Internet:** <http://www.spectrumed.com>

**Copyright:**  
 1995  
 1995

**Component Titles:**  
 • The Geometer's Sketchpad (Macintosh Version 3) \$274.95  
 • The Geometer's Sketchpad (Windows Version 3.03) \$274.95

**Est. WCP Price(s):**



**GrafEq (Macintosh Version 2.06)**

**Depth Resource**

**Physical Characteristics:**

Two 3.5" discs and a manual—approximately 150 pages—all in a 3-ring binder



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

**Annotation:**

This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

**Comments:**

- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form  $<$  and  $\leq$  cannot be distinguished from the display.

**System Requirements:**

- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

**Publisher:** Pedagoguery Software

**Distributor:** Pedagoguery Software  
4446 Lazelle Avenue  
TERRACE, BC, CANADA V8G 1R8

**Telephone:** (250) 638-8606

**Fax:** (250) 638-8606

**Internet:** <http://www.cafe.net/peda>

**Copyright:**

1998

**Title:**

GrafEq (Macintosh Version 2.06)

**Est. WCP Price(s):**

- \$94.50 (Single User)
- \$300.00 (Up to 30 computer site licence)
- \$350.00 (31-40 computer site licence)
- \$400.00 (41-50 computer site licence)
- \$450.00 (51-60 computer site licence)
- \$500.00 (61 or more computer site licence)



*Explorations Series*  
**Graphing Calculator Activities for  
Enriching Middle School Mathematics**

**Annotation:**  
This resource is a collection of twelve activities using the TI-80, -82 and -83 graphing calculators. Activities require students to gather and organize data and explain their understanding of processes. Instructions for the use of the calculator accompany every step. Activities address outcomes in the Patterns and Relations, and Statistics and Probability strands of the Common Curriculum Framework. Most activities are related to Applied Mathematics 10.

**Teacher Resource**

**Author(s):**  
Browning, C.A.; Channell, D.E.

**Audience:** Teacher

**Physical Characteristics:**  
142 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓		

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓				

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓				✓	✓

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309159

**Title:** Graphing Calculator Activities for Enriching Middle School Mathematics

**Est. WCP Price(s):** \$24.48



*Green Globs & Graphing Equations*

- Green Globs & Graphing Equations (Macintosh Version 2.3)
- Green Globs & Graphing Equations (Windows Version 2.3)

**Depth Resource**

**Physical Characteristics:**

- Macintosh Version—One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder
- Windows Version—One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓				✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓		✓	✓		

**Annotation:**

This resource graphs different forms of linear, quadratic, polynomial and trigonometric relations. A second program provides a graph and requires the student to enter the equation. There are also two games that act as motivational tools. Five graphs can be displayed simultaneously. The resource is user-friendly.

**Comments:**

- A teacher's guide accompanies the disc and provides ideas and worksheets.
- Natural log is the only logarithm that can be graphed, and  $y = e^x$  is the only exponential function that can be graphed.
- Asymptotes are not shown.
- Intercepts are approximations.

**System Requirements:**

- Macintosh: System 6.0.5 or higher (System 7 recommended), 1 MB RAM.
- Windows 3.1: Windows 3.1, 486/25 MHz or better, 2 MB RAM; 256 colour monitor.
- Windows 95: 486DX/50 MHz or higher (Pentium recommended), 4 MB RAM, 256 colour monitor.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

**Publisher:** Sunburst Communications

**Distributor:** Gage Educational Publishing Co.  
164 Commander Boulevard  
SCARBOROUGH, ON, CANADA M1S 3C7

**Telephone:** (800) 667-1115; (416) 293-8464

**Fax:** (416) 293-0846

**Internet:** <http://www.cornerstone.gagepub.ca>

**Copyright:**

1996

1997

**Component Titles:**

- Green Globs & Graphing Equations (Macintosh Version 2.3)
- Green Globs & Graphing Equations (Windows Version 2.3)

**Est. WCP Price(s):**

\$129.95

\$129.95

BEST COPY AVAILABLE



**An Introduction to the TI-82 Graphing Calculator**

**Teacher Resource**

**Author(s):**  
Govatos, M.

**Physical Characteristics:**  
48 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Annotation:**

This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

**Comments:**

- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

**Publisher:** Frank Schaffer Publications Inc.

**Distributor:** Frank Schaffer Publications Inc.  
23740 Hawthorne Boulevard  
TORRANCE, CA, USA 90505

**Telephone:** (800) 609-1735

**Fax:** (800) 837-7260 ; (310) 794-5468

**Internet:** <http://www.frankschaffer.com/frntpage.html>

**Copyright: ISBN:**  
1998 0768200067

**Title:**  
An Introduction to the TI-82 Graphing Calculator

**Est. WCP Price(s):**  
\$18.95 (US)



*The Learning Equation:*  
*Mathematics 10 (Version 1.1)*

- CD-ROMs 1, 2, 3
- Student Refresher
- Teacher's Manual

**Breadth Resource**  
**(The approval of Version 1.1 is valid until June 30, 2000 only)**

**Physical Characteristics:**

- CD-ROMs 1, 2, 3—CD-ROM 1: Number; CD-ROM 2: Shape and Space, Statistics and Probability; CD-ROM 3: Patterns and Relations
- Student Refresher—116 pages, softcover
- Teacher's Manual—245 pages, softcover



**Annotation:**

The CD-ROMs in this resource package present the Mathematics 10 outcomes—Common and Pure clusters only—in an interactive manner. All lessons follow the pattern of an introduction, followed by a tutorial example for students, a summary of concepts, practice problems, extra practice and a self check. Students are able to monitor their own progress through the various components of each lesson.

• *CD-ROMs 1, 2, 3*

The three CD-ROMs are sequenced in the same order as the strand sequencing shown in the Mathematics 10 course derived from the Common Curriculum Framework, starting with Number, and continuing through Patterns and Relations, Shape and Space, and Statistics and Probability. In total there are 46 lessons in the complete set. The program is very interactive and uses many "explorers," which allow the student to simulate mathematics concepts that involve: the factoring of polynomials using algebra tiles, solving right triangles, volume and surface area, and linear relations. Also included on the CD-ROMs is a glossary that students can access as a pull-down menu. Students can also set the sound level to their own liking. When working within the program, students can control the pace of moving through the material. Motivational strategies are also included. Students are required to correctly answer questions; and as they do, a portion of a puzzle is uncovered until a complete picture is revealed.

• *Student Refresher*

The student refresher follows the organization of the CD-ROMs and provides additional examples for students. Answers for each question are located at the end of the document.

• *Teacher's Manual*

The teacher's manual begins with installation notes for stand-alone Windows 95, NT and 3.1, and Macintosh computers. Minimum system requirements are noted. The manual continues with network installation procedures and troubleshooting notes. The instructional components are also summarized. There are cross-references to the student refresher and to the objectives, terminology and lesson components on the appropriate CD-ROM. Prerequisite skills are also listed.

**Comments:**

- The faster the computer used, the better. With a 133 MHz Pentium, page loading is fast and effective. With a 486/66 MHz computer, students become bored quickly because of slow page loading.
- The "explorers" enable students to gain conceptual understanding of key outcomes, such as the alternative forms of expressing linear relations.
- The student refreshers can be used profitably by most students, especially in classroom situations where students have to share computers.
- These comments only refer to Version 1.1 of the resource package; earlier versions, such as Version 1.0, are not approved WCP resources and contain significant differences that reduce the effectiveness of the resources.
- Students are not shown how to use their graphing calculators. Instruction in the use of graphing calculators is confined to "read your calculator manual." For students without access to a qualified tutor/teacher, this reduces the effectiveness of the resource package.
- In the lessons concerned with factorization, the screens only show the trial method. Students who choose to use the decomposition method mentioned in the student refresher cannot navigate their way through the lessons.
- In the lessons concerned with function notation, there are many examples of the composition of functions, with expressions like  $f(g(x))$ . Such examples are beyond the outcomes of Pure Mathematics 10.
- Some of the numbers used in real-life examples are unrealistic. One example, in the Linear Functions lesson, has a large swimming pool being emptied at 6000 L/h, resulting in a five-day time to empty the pool. Most large pools can be emptied in three or four hours. These unrealistic numbers hinder students who check answers for reasonableness against the context of the question.

**System Requirements:**

- Macintosh: System 7.1 or higher, 8 MB of free RAM above system requirements (16 MB or more recommended), VGA 256 colour 14-inch or larger monitor, 15 MB or more of free hard disk space, double speed CD drive or better, 8 bit sound support for audio.
- Windows 3.1: MPC2 compliant computer, 486SX 33 MHz (50 MHz or better recommended), 8 MB RAM (16 MB recommended), VGA 256 colour monitor, 40 MB or more of free hard disk space, double speed CD drive or better, Soundblaster or 100% support for audio.
- Windows 95: MPC2 compliant computer, 486SX 66 MHz (Pentium recommended), 16 MB RAM, VGA 256 colour monitor, 40 MB or more of free hard disk space, double speed CD drive or better, Soundblaster or 100% support for audio.
- Windows 98 or NT: MPC2 compliant computer, Pentium 100 MHz (Pentium 133 or faster recommended), 16 MB or more RAM, VGA 256 colour monitor, 40 MB or more of free hard disk space, double speed CD drive or better, Soundblaster or 100% support for audio.

- Additional requirements for network installations: faster networks provide more satisfactory performance; to run *The Learning Equation: Mathematics 10* from the server hard drive and copy all the CD-ROM files requires 2.0 GB or more free space; to run *The Learning Equation: Mathematics 10* from a central CD-ROM drive, the CD-ROM drive or jukebox must be connected to the network server.

**BEST COPY AVAILABLE**

*Continued*

*Continued*

**Audience:** General

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓	✓			

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
	✓	✓							

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓		✓	✓

**Publisher:** ITP Nelson Canada  
**Distributor:** ITP Nelson  
 1120 Birchmount Road  
 SCARBOROUGH, ON, CANADA  
 M1K 5G4  
**Telephone:** (800) 268-2222; (416) 752-9100  
**Fax:** (800) 430-4445; (416) 752-9646  
**Internet:** <http://www.nelson.com>

**Copyright:** 1998  
**ISBN:** 0176059598  
 1998 0176059695  
 1998 0176059733

**Component Titles:**  
 • CD-ROMs 1, 2, 3  
 • Student Refresher  
 • Teacher's Manual

**Est. WCP Price(s):**  
 \$150.00 (Single Station Price)  
 \$8.50  
 \$74.00



**MATHPOWER 10 (Western Edition)**

- Student Text
- Teacher's Resource
- Computer Data Bank (Windows Version)
- Computerized Assessment Bank (Windows Version)
- Blackline Masters
- Solutions



**Breadth and Depth Resource**

**Author(s):**  
 Angel, P. et al.

**Physical Characteristics:**

- Student Text—480 pages, hardcover
- Teacher's Resource—310 pages, softcover
- Computer Data Bank (Windows Version)—Teacher's Resource, 98 pages, softcover; Data Disk, one 3.5" disc
- Computerized Assessment Bank (Windows Version)—One CD-ROM and User's Notes, 27 pages, softcover
- Blackline Masters—196 pages, softcover
- Solutions—783 pages, softcover



**Annotation:**

The resource package closely maps the content and philosophy of the Common Curriculum Framework. The framework's mathematical processes are woven throughout the resource. A conscientious effort was made to relate the mathematical concepts to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout.

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the text. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are integrated in examples and activities.

**• Student Text**

The student text has eight chapters that relate to topics from the Common Curriculum Framework strands. Each chapter begins with a connection problem followed by a "Getting Started" section. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Suggestions are made for incorporating graphing calculators and computer software. Chapter reviews as well as cumulative reviews are provided. Resources at the end of the text include data banks, answers, glossary, applications index and technology index.

**• Teacher's Resource**

The teacher's resource contains extensive teaching notes, including enrichment and reteaching ideas, a list of prerequisite skills, and assessment strategies. Also included are suggestions for addressing the use of technology and the mathematical processes, especially communication, mental mathematics, problem solving and connections. Some answers for problems are provided, with one solution being given for those problems with multiple approaches/solutions. Blackline masters are included for grid, dot and geometric net shapes, and for alternate assessment forms.

**• Computer Data Bank (Windows Version)**

This resource includes five extensive, high interest databases — movies, sports, skiing, Olympics and insurance — together with a teacher's resource. In addition to application blackline masters for student work, software specific blackline masters are included to help teach database management skills. Questions address a wide variety of outcomes.

**• Computerized Assessment Bank (Windows Version)**

This Windows based (3.1 or 95) software package includes a manual, a mathematical editor and a question bank. There are about 50 questions per chapter. Some multiple-choice questions can have their distractors reordered; and, for many other questions, the user can change key parameters in the stem, whereupon the program will change the distractors with a click of a button. The mathematical editor allows teachers to add questions to address more fully the philosophy of the program.

**• Blackline Masters**

The blackline masters supplement *MATHPOWER 10* student and teacher resources. The blackline masters provide an introduction to mathematics, which includes learning styles, goal setting, section questions, chapter reviews, two chapter tests (all short answer style) from each chapter, cumulative reviews and several projects.

**• Solutions**

This solutions manual supplements the *MATHPOWER 10* student and teacher resources, and gives a step-by-step solution to every question from the student text.

**Comments:**

- The introductory pages of the student resource, which outline the mathematical processes and the NCTM Standards, are an essential part of the resource.
- An introduction to the operation of ClarisWorks for Windows 4.0 and Microsoft Works for Windows 3.0 is included as part of the teacher's resource for the computer data bank.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resource effectively. These are not supplied with the resource.

**Cautions:**

- References are made in both the student and the teacher materials to specific Internet web sites. The web sites are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource in a manner that is consistent with the calculator policy.
- The computerized assessment bank is a test generator but does not include a tracking system.
- The computer data bank can only be used with ClarisWorks for Windows or Microsoft Works for Windows. It does not include either a Macintosh version or a version that can be used with any of the standard office suites, whether Macintosh or Windows 95.
- For those using the 486DX chip, a math coprocessor is required to use the computerized assessment bank. The bank can be operated with all Pentium chips.

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*Continued*

**System Requirements:**

**Computer Data Bank**

- Windows 95: 486/50 MHz, 8 MB RAM, mouse, either ClarisWorks or Microsoft Works.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), Microsoft Works. Windows 95 recommended.

**Computerized Assessment Bank**

- Windows 95: 486DX/66 MHz (Pentium processor recommended), 8 MB RAM, mouse, either ClarisWorks or Microsoft Works.
- Windows 3.1: 486DX/66 MHz (Pentium processor recommended), 5 MB RAM (8 MB recommended), Microsoft Works. Windows 95 recommended.

**Audience:** General

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓	✓			

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
	✓	✓							

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	N/A	✓	✓

**Publisher:** McGraw-Hill Ryerson  
**Distributor:** McGraw-Hill Ryerson Ltd.  
 300 Water Street  
 WHITBY, ON, CANADA L1N 9B6  
**Telephone:** (800) 565-5758; (905) 430-5000  
**Fax:** (800) 463-5885; (905) 430-5020  
**Internet:** <http://www.mcgrawhill.ca>

**Copyright: ISBN:**  
 1998 0075525968  
 1998 0075525976  
 1998 0075600196  
 1997 0075601621  
 1999 0075604981  
 1999 0075603748

**Component Titles:**  
 • Student Text \$48.95  
 • Teacher's Resource \$110.00  
 • Computer Data Bank (Windows Version) \$110.00  
 • Computerized Assessment Bank (Windows Version) \$225.00  
 • Blackline Masters \$100.00  
 • Solutions \$165.00



Explorations Series

Modeling Motion: High School Math Activities with the CBR

**Depth Resource**

**Author(s):**

Antinone, L.; Gough, S.

**Physical Characteristics:**

114 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓			✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓				✓			

**Annotation:**

This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

**Comments:**

- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Publisher:** Texas Instruments Incorporated

**Distributor:** Addison-Wesley Longman Pearson Education  
26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8

**Telephone:** (800) 387-8028; (416) 447-5101

**Fax:** (800) 465-0536; (416) 443-0948

**Internet:** <http://www.awl.com/canada>

**Copyright:** ISBN:

1997 1886309140

**Title:**

Modeling Motion: High School Math Activities with the CBR

**Est. WCP Price(s):**

\$16.83



*Pure Mathematics 10 (Distance Learning Package)*

- Module 1: Statistics and Probability
- Module 2: Patterns and Relations
- Module 3: Algebra
- Module 4: Number Connections
- Module 5: Shape and Space
- Assignment Booklets: Modules 1-5
- Learning Facilitator's Manual

**Breadth and Depth Resource**

**Physical Characteristics:**

- Module 1: Statistics and Probability—188 pages, coilbound
- Module 2: Patterns and Relations—206 pages, coilbound
- Module 3: Algebra—183 pages, coilbound
- Module 4: Number Connections—168 pages, coilbound
- Module 5: Shape and Space—124 pages, coilbound
- Assignment Booklets: Modules 1-5—5 assignment booklets, 9–18 pages each, stapled
- Learning Facilitator's Manual—Approximately 80 pages, loose



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓	✓			

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
	✓	✓							

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓		✓	✓

**Annotation:**

This distance education resource package includes five modules with assignments, as well as a learning facilitator's manual. This resource package refers to *MATHPOWER 10* (McGraw-Hill Ryerson) regularly. References to calculator and computer applications are made and explained. All mathematical processes are involved. In going to other resources for explorations and explanations, this resource package touches on a variety of learning styles.

**Comments:**

- This resource package is set up for individual learning and would work best for individualized programs.
- This is a wraparound resource package, as materials are integrated with the *MATHPOWER 10* student text. This package cannot be used as a stand-alone resource.
- The introductory pages of each module, which outline the mathematical processes and the NCTM Standards, are an essential part of the student resources.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resource package effectively. These are not supplied with the resource package.

**Cautions:**

- References are made in both the student and the teacher materials to specific Internet web sites. The web sites are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations.
- Teachers should consult any list of approved calculators or other calculator policy that applies to their jurisdiction, and use the resource package in a manner that is consistent with the calculator policy.

**Audience: General**

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Publisher:** Learning Technologies Branch (LTB)  
Alberta Learning  
**Distributor:** Learning Technologies Branch (LTB)  
Alberta Learning  
Box 4000  
BARRHEAD, AB, CANADA T7N 1P4  
**Telephone:** (780) 674-5333  
**Fax:** (780) 674-6561

**Copyright: ISBN:**  
1999 0774115122  
1999 0774115017  
1999 0774115157  
1999 0774114991  
1999 0774115076  
1999 0774115149

**Component Titles:**  
• Module 1: Statistics and Probability \$18.60  
• Module 2: Patterns and Relations \$18.60  
• Module 3: Algebra \$18.60  
• Module 4: Number Connections \$18.60  
• Module 5: Shape and Space \$18.60  
• Assignment Booklets: Modules 1-5 \$0.00  
• Learning Facilitator's Manual \$60.00



*Secondary Math*  
**Secondary Math Lab Toolkit**  
(Macintosh / Windows Version 1.1)

**Depth Resource**

**Physical Characteristics:**

One CD-ROM and a User's Guide—128 pages, bound—all in a 3-ring binder



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
								✓	✓

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓		✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓		✓	✓	✓	✓

**Annotation:**

The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

**Comments:**

- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representation is very limited and is harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

**System Requirements:**

- Macintosh: minimum of a Macintosh LC II, with 12 MB RAM total and System 7.0 or higher, 256 colour 13-inch monitor, 6 MB hard disk space.
- Windows 3.1: Windows 3.1 or 3.11, 486/33 MHz or higher, 12 MB RAM, VGA 13-inch 256 colour monitor, 6 MB hard disk space.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive, VGA 13-inch 256 colour monitor, 6 MB hard disk space. The use of a Pentium processor with 16 MB RAM is recommended.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

**Publisher:** Sunburst Communications  
**Distributor:** Gage Educational Publishing Co.  
164 Commander Boulevard  
SCARBOROUGH, ON, CANADA M1S 3C7  
**Telephone:** (800) 667-1115 ; (416) 293-8464  
**Fax:** (416) 293-0846  
**Internet:** <http://www.cornerstone.gagepub.ca>

**Copyright:** 1998  
**ISBN:** 0134330528 (User's Guide)  
**Title:** Secondary Math Lab Toolkit (Macintosh/Windows Version 1.1)

**Est. WCP Price(s):** \$129.95

**BEST COPY AVAILABLE**



*Explorations Series*  
Statistics Handbook for the TI-83

**Annotation:**

This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

**Teacher Resource**

**Author(s):**  
Morgan, L.

**Audience:** Teacher

**Physical Characteristics:**  
157 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

**Publisher:** Texas Instruments Incorporated

**Copyright:** 1997  
**ISBN:** 1886309078

**Title:** Statistics Handbook for the TI-83

**Est. WCP Price(s):** \$23.18

**Distributor:** Addison-Wesley Longman Pearson Education  
26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8

**Telephone:** (800) 387-8028; (416) 447-5101

**Fax:** (800) 465-0536; (416) 443-0948

**Internet:** <http://www.awl.com/canada>



*Explorations Series*  
Using the TI-86 in Collegiate  
Mathematics: A Tutorial

**Teacher Resource**

**Author(s):**  
Dodd, F.; Cruthirds, J.

**Physical Characteristics:**  
177 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

**Comments:**

• About 50% of this resource is extraneous to the WCP.

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309116

**Title:** Using the TI-86 in Collegiate Mathematics: A Tutorial

**Est. WCP Price(s):** \$22.44



A Visual Approach to Algebra

**Teacher Resource**

**Author(s):**

Van Dyke, F.

**Physical Characteristics:**

151 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This is a supplementary activity book for clusters C1 and C2. An investigative approach to learning is used to introduce concepts related to the relationships between such things as graphing, scale, data and algebra. This resource can be used as an introduction or extension to many of the outcomes in clusters C1 and C2. Student activity worksheets and teacher note pages are given for all activities. The resource includes the use of a graphing calculator for various activities.

**Comments:**

- The activities could be extended easily to meet outcomes related to function notation, domain and range, direct variation, midpoint, and irrational number representation.
- The imperial system is used throughout the resource for problem-solving situations.
- The activities are repetitive; teachers would not use all of them, as there are many activities that meet a single outcome.

**Audience:** General/Gifted/LD (Mild)

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓		

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓					

**Publisher:** Dale Seymour Publications

**Distributor:** Addison-Wesley Longman Pearson Education  
26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8

**Telephone:** (800) 387-8028; (416) 447-5101

**Fax:** (800) 465-0536; (416) 443-0948

**Internet:** <http://www.awl.com/canada>

**Copyright: ISBN:**

1998 1572324414

**Title:**

A Visual Approach to Algebra

**Est. WCP Price(s):**

\$20.92



Acces: *The Teacher's Database*

- NEW** • Acces: The Teacher's Database (Macintosh Version 3.33)
- NEW** • Acces: The Teacher's Database (DOS/Windows Version 3.32)
- NEW** • Canadian Math Database (Grades 11-12) (Catalog)

**Teacher Resource**

**Physical Characteristics:**

- Macintosh Version 3.33—One 3.5" Macintosh disc; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- DOS/Windows Version 3.32—Three 3.5" DOS/Windows discs; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Canadian Math Database (Grades 11-12) (Catalog)—428 pages, 3-ring binder; two 3.5" discs (Macintosh Version 1.1A) and two 3.5" discs (DOS/Windows Version 1.0A)



**Annotation:**

This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more conceptual blueprint. The technology assumed is that of the scientific calculator rather than the graphing calculator.

**Comments:**

- A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

**Cautions:**

- The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
- Windows 3.1 installations require 32-bit extensions before they run.

**System Requirements:**

- Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended).
- Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB.

**Audience:** Teacher

**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
				✓	✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
			✓	✓	✓				✓

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>		✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓		✓		

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓				

**Publisher:** EducAide Software  
**Distributor:** EducAide Software  
 3065 Richmond Parkway, Suite 102  
 RICHMOND, CA, USA 94806  
**Telephone:** (800) 669-9405 ; (510) 222-0600  
**Fax:** (510) 222-0165  
**Internet:** http://www.educaide.com

**Copyright:**  
 1997  
 1997  
 1998

**Component Titles:**  
 • Acces: The Teacher's Database (Macintosh Version 3.33) \$495.00 (US)  
 • Acces: The Teacher's Database (DOS/Windows Version 3.32) \$595.00 (US)  
 • Canadian Math Database (Grades 11-12) (Catalog) \$225.00 (US)





*Addison-Wesley Mathematics 11*  
*(Western Canadian Edition)*

- Student Text



- Independent Study Guide



- Teacher's Resource Book (includes Selected Solutions CD-ROM) (Macintosh/Windows Version 1.0)



- Template and Data Kit (Macintosh/Windows Version 1.0)



**Breadth and Depth Resource**

**Author(s):**

Alexander, R.; Kelly, B.

**Physical Characteristics:**

- Student Text—601 pages, hardcover
- Independent Study Guide—146 pages, softcover
- Teacher's Resource Book—Approximately 300 pages, loose; CD-ROM
- Template and Data Kit—152 pages, coilbound; CD-ROM (for ClarisWorks, Macintosh 2.0, Windows 1.0, Microsoft Works 3.0, Microsoft Office 97 and Windows 95)



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production (for Template and Data Kit)

**Annotation:**

The resource package closely maps the content of the Common Curriculum Framework. The framework's mathematical processes are embedded throughout the resource package. A conscientious effort was employed to relate the mathematical concepts developed to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. Icons and headings are the primary means of navigation through the student text.

This package supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and open-ended questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the student text. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are highlighted through the use of icons in examples, explanations and activities.

• *Student Text*

The text has nine chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter focuses on a connection problem, entitled "Mathematical Modelling." Relevant mathematical material either precedes the problem, or follows the problem, depending on the chapter. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource.

• *Independent Study Guide*

This resource provides students with additional examples and explanations to supplement the material in the student text. An introductory chapter helps the student develop efficient study skills. For the other nine chapters, which parallel the chapters of the student text, additional explanations, cross-referenced self-tests, mini-glossaries and overviews provide additional assistance to the student. Solutions to the self-tests included in the independent study guide are given at the back of the guide in short form, and in more extended form on a CD-ROM included in the teacher's resource book.

• *Teacher's Resource Book*

The teacher's resource book contains teaching notes relating to examples in the student text, blackline masters, additional examples and traditional unit tests. A TI-83 graphing calculator handbook, suggestions for graphing calculator activities and a CD-ROM with solutions to the student text and independent study guide are part of the teacher's resource book.

• *Template and Data Kit*

This resource includes five extensive databases—hockey greats, transportation, aircraft, movies and estate; templates for the spreadsheet activities found in the student text; and a teacher's guide. The teacher's guide contains spreadsheet and database tutorials, additional technology activities, and teaching notes and answers. The activities address a wide variety of outcomes.

**Comments:**

- The treatment of the side-side-angle case for oblique triangles (specific outcome P3-5) is integrated into the calculation of chord and secant lengths (specific outcomes C5-5 and P5-7). The treatment uses two right triangles, in contrast to the more traditional use of the law of sines.
- The teacher's resource book assessment sections have a strong emphasis on procedures. This approach to assessment is not consistent with the philosophy of the WCP Common Curriculum Framework.
- The instructional strategies are limited to those found in the student text.
- The teaching notes are confined to advice on examples from the student text; they do not include additional instructional strategies.

**System Requirements:**

*Teacher's Resource Book*

- Macintosh: 68020 or greater processor, Mac OS 7.0 or later, 7 MB RAM minimum, 5 MB hard drive space plus 7 MB temporary drive space available during installation, 256 colour 13-inch monitor, 2X CD drive or better.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM minimum, 5 MB hard drive space plus 7 MB temporary drive space available during installation, 256 colour 13-inch monitor, 2X CD drive or better.
- Windows 95: 486DX/50 MHz (Pentium recommended), 4 MB RAM minimum, 5 MB hard drive space plus 7 MB temporary drive space available during installation, 256 colour 13-inch monitor, 2X CD drive or better.

*Template and Data Kit*

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, ClarisWorks.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

**Audience:** General

*Continued*

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
				✓	✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
			✓	✓	✓				

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>		✓	

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓	✓	✓			

**Publisher:** Addison-Wesley Longman Ltd.

**Distributor:** Addison-Wesley Longman Pearson Education

26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8

**Telephone:** (800) 387-8028; (416) 447-5101

**Fax:** (800) 465-0536; (416) 443-0948

**Internet:** <http://www.awl.com/canada>

**Copyright:** 1998

**ISBN:** 0201346249

1999 0201346257

1999 0201346265

1998 0201395495

**Component Titles:**

- Student Text \$51.95
- Independent Study Guide \$5.67
- Teacher's Resource Book (includes Selected Solutions CD-ROM) (Macintosh/Windows Version 1.0) \$121.64
- Template and Data Kit (Macintosh/Windows Version 1.0) \$135.15



*The Geometer's Sketchpad*

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)



**Annotation:**

This resource is designed as a tool for teaching and exploring geometrical concepts. It allows students to manipulate geometrical figures with a hands-on approach. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 11. For high school, the primary uses are in Pure Mathematics 10 and 11, although the program can be adapted to solve design and layout problems in Applied Mathematics 10 and 11. The user guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations and construction activities on a wide range of geometry topics are included.

**Depth Resource**

**Physical Characteristics:**

- Macintosh Version—Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version—Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette



**Comments:**

- This resource can have greater applications as the user becomes more familiar with the program.
- The videocassette supports both Macintosh and Windows.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed, or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

**System Requirements:**

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

**Audience:** General

**Cluster(s):**

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9
	✓		✓						

Common	C1	C2	C3	C4	C5	C6
	✓				✓	

Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
					✓				

**Course(s):**

	<b>10</b>	<b>11</b>	<b>12</b>
<b>Applied Mathematics</b>	✓	✓	
<b>Pure Mathematics</b>	✓	✓	

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

**Publisher:** Spectrum Educational Supplies Ltd.  
**Distributor:** Spectrum Educational Supplies Ltd.  
 125 Mary Street  
 AURORA, ON, CANADA L4G 1G3  
**Telephone:** (800) 668-0600; (905) 841-0600  
**Fax:** (800) 668-0602; (905) 727-6265  
**Internet:** <http://www.spectrumed.com>

**Copyright:**  
 1995  
 1995

**Component Titles:**  
 • The Geometer's Sketchpad (Macintosh Version 3) \$274.95  
 • The Geometer's Sketchpad (Windows Version 3.03) \$274.95



**GrafEq (Macintosh Version 2.06)**

**Depth Resource**

**Physical Characteristics:**

Two 3.5" discs and a manual—  
approximately 150 pages—all in a 3-ring  
binder



**Availability in Alternate Format(s) for  
Students Who Are Visually Impaired or Print  
Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

**Annotation:**

This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

**Comments:**

- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form  $<$  and  $\leq$  cannot be distinguished from the display.

**System Requirements:**

- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

**Publisher:** Pedagoguery Software  
**Distributor:** Pedagoguery Software  
4446 Lazelle Avenue  
TERRACE, BC, CANADA V8G 1R8  
**Telephone:** (250) 638-8606  
**Fax:** (250) 638-8606  
**Internet:** <http://www.cafe.net/peda>

**Copyright:** 1998  
**Title:** GrafEq (Macintosh Version 2.06)

**Est. WCP Price(s):**  
\$94.50 (Single User)  
\$300.00 (Up to 30  
computer site licence)  
\$350.00 (31-40  
computer site licence)  
\$400.00 (41-50  
computer site licence)  
\$450.00 (51-60  
computer site licence)  
\$500.00 (61 or more  
computer site licence)



*Green Globes & Graphing Equations*

- Green Globes & Graphing Equations (Macintosh Version 2.3)
- Green Globes & Graphing Equations (Windows Version 2.3)

**Depth Resource**

**Physical Characteristics:**

- Macintosh Version—One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder
- Windows Version—One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓				✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓		✓	✓		

**Publisher:** Sunburst Communications  
**Distributor:** Gage Educational Publishing Co.  
 164 Commander Boulevard  
 SCARBOROUGH, ON, CANADA M1S 3C7  
**Telephone:** (800) 667-1115 ; (416) 293-8464  
**Fax:** (416) 293-0846  
**Internet:** <http://www.cornerstone.gagepub.ca>

**Annotation:**

This resource graphs different forms of linear, quadratic, polynomial and trigonometric relations. A second program provides a graph and requires the student to enter the equation. There are also two games that act as motivational tools. Five graphs can be displayed simultaneously. The resource is user-friendly.

**Comments:**

- A teacher's guide accompanies the disc and provides ideas and worksheets.
- Natural log is the only logarithm that can be graphed, and  $y = e^x$  is the only exponential function that can be graphed.
- Asymptotes are not shown.
- Intercepts are approximations.

**System Requirements:**

- Macintosh: System 6.0.5 or higher (System 7 recommended), 1 MB RAM.
- Windows 3.1: Windows 3.1, 486/25 MHz or better, 2 MB RAM; 256 colour monitor.
- Windows 95: 486DX/50 MHz or higher (Pentium recommended), 4 MB RAM, 256 colour monitor.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓



An Introduction to the TI-82  
Graphing Calculator

**Teacher Resource**

**Author(s):**  
Govatos, M.

**Physical Characteristics:**  
48 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

**Comments:**

- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

**Audience:** Teacher

**Course(s):**

	<b>10</b>	<b>11</b>	<b>12</b>
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Publisher:** Frank Schaffer Publications Inc.

**Distributor:** Frank Schaffer Publications Inc.  
23740 Hawthorne Boulevard  
TORRANCE, CA, USA 90505

**Telephone:** (800) 609-1735

**Fax:** (800) 837-7260 ; (310) 794-5468

**Internet:** <http://www.frankschaffer.com/frntpage.html>

**Copyright: ISBN:**

1998 0768200067

**Title:**

An Introduction to the TI-82 Graphing Calculator

**Est. WCP Price(s):**

\$18.95 (US)



**MATHPOWER 11** (Western Edition)

• Student Text

**Annotation:**

The student text closely maps the content and philosophy of the Common Curriculum Framework. The framework's mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are integrated in examples and activities. A conscientious effort was made to relate the mathematical concepts to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. This student text supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the student text.

• *Student Text*

The student text has nine chapters that relate to topics from the Common Curriculum Framework strands. Each chapter begins with a connection problem, followed by a "Getting Started" section. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Suggestions are made for incorporating graphing calculators and computer software. Chapter reviews, as well as cumulative reviews are provided. Resources at the end of the text include data banks, answers, a glossary, an applications index and a technology index.

**Comments:**

• The introductory pages of the student text, which outline the mathematical processes and the NCTM Standards, are an essential part of the resource.

**Cautions:**

• References are made in the student text to specific Internet web sites. The web sites are not approved. Teachers, for their own protection, should review the current status of the web sites, including the documents identified in the links, to ensure that the site contains accurate information and information that meets the criterion of social considerations.

**Audience:** General

**Breadth Resource**

**Author(s):**

Knill, G. et al.

**Physical Characteristics:**

670 pages, hardcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
				✓	✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
			✓	✓	✓				

**Course(s):**

	<b>10</b>	<b>11</b>	<b>12</b>
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>		✓	

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
N/A	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A

**Publisher:** McGraw-Hill Ryerson  
**Distributor:** McGraw-Hill Ryerson Ltd.  
 300 Water Street  
 WHITBY, ON, CANADA L1N 9B6  
**Telephone:** (800) 565-5758; (905) 430-5000  
**Fax:** (800) 463-5885; (905) 430-5020  
**Internet:** <http://www.mcgrawhill.ca>

**Copyright:** 1999  
**ISBN:** 0075525984

**Component Titles:**  
 • Student Text

**Est. WCP Price(s):**  
 \$51.95



*Explorations Series*  
**Modeling Motion: High School Math Activities with the CBR**

**Depth Resource**

**Author(s):**  
Antinone, L.; Gough, S.

**Physical Characteristics:**  
114 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓			✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓				✓			

**Annotation:**

This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

**Comments:**

- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309140

**Title:** Modeling Motion: High School Math Activities with the CBR

**Est. WCP Price(s):** \$16.83



*Secondary Math*  
**Secondary Math Lab Toolkit**  
(Macintosh / Windows Version 1.1)

**Depth Resource**

**Physical Characteristics:**  
One CD-ROM and a User's Guide—128 pages, bound—all in a 3-ring binder



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
								✓	✓

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓		✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓		✓	✓	✓	✓

**Publisher:** Sunburst Communications  
**Distributor:** Gage Educational Publishing Co.  
164 Commander Boulevard  
SCARBOROUGH, ON, CANADA M1S 3C7  
**Telephone:** (800) 667-1115 ; (416) 293-8464  
**Fax:** (416) 293-0846  
**Internet:** <http://www.cornerstone.gagepub.ca>

**Annotation:**

The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

**Comments:**

- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representation is very limited and is harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

**System Requirements:**

- Macintosh: minimum of a Macintosh LC II, with 12 MB RAM total and System 7.0 or higher, 256 colour 13-inch monitor, 6 MB hard disk space.
- Windows 3.1: Windows 3.1 or 3.11, 486/33 MHz or higher, 12 MB RAM, VGA 13-inch 256 colour monitor, 6 MB hard disk space.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive, VGA 13-inch 256 colour monitor, 6 MB hard disk space. The use of a Pentium processor with 16 MB RAM is recommended.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓



**Annotation:**

This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

**Teacher Resource**

**Author(s):**  
Morgan, L.

**Audience:** Teacher

**Physical Characteristics:**  
157 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

**Course(s):**

	<b>10</b>	<b>11</b>	<b>12</b>
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

<b>Common</b>	C1	C2	C3	C4	C5	C6

**Mathematical Process(es):**

<b>Communication</b>	<b>Connections</b>	<b>Estimation and Mental Math</b>	<b>Problem Solving</b>	<b>Reasoning</b>	<b>Technology</b>	<b>Visualization</b>
			✓		✓	✓

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

**Publisher:** Texas Instruments Incorporated

**Copyright:** 1997

**Title:**

**Est. WCP Price(s):**

**Distributor:** Addison-Wesley Longman Pearson Education  
26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8

ISBN: 1886309078

Statistics Handbook for the TI-83

\$23.18

**Telephone:** (800) 387-8028; (416) 447-5101

**Fax:** (800) 465-0536; (416) 443-0948

**Internet:** <http://www.awl.com/canada>

**BEST COPY AVAILABLE**



*Explorations Series*  
Using the TI-86 in Collegiate  
Mathematics: A Tutorial

**Teacher Resource**

**Author(s):**  
Dodd, F.; Cruthirds, J.

**Physical Characteristics:**  
177 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

**Comments:**

- About 50% of this resource is extraneous to the WCP.

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309116

**Title:** Using the TI-86 in Collegiate Mathematics: A Tutorial

**Est. WCP Price(s):** \$22.44



**ZAP-A-GRAPH**

• ZAP-A-GRAPH (English Macintosh Version 4.2)



• ZAP-A-GRAPH (English Windows Version 4.2)

**Depth Resource**

**Physical Characteristics:**

- English Macintosh Version—One 3.5" disc and a manual—24 pages, softcover
- English Windows Version—One 3.5" disc and a manual—24 pages, softcover



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓					✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓			✓		

**Annotation:**

This is a graphing program for use in learning and reviewing graphs of relations and functions. It uses transformations, derived functions and composition of functions. Relations can be input without recasting into function form.

**Comments:**

- This program is to be used after a great deal of graphing information is known.
- For solving equations, a graphing calculator may be more effective.

**System Requirements:**

- Macintosh: System 6.0 or higher, 1 MB RAM.
- Windows: Windows 3.1, 3.11 or Windows 95, 1 MB RAM.

**Audience:** General/Gifted

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>		✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
				✓	✓	✓

**Publisher:** Brain Waves Software Inc.  
**Distributor:** Brain Waves Software Inc.  
 R.R. #1  
 FITZROY HARBOR, ON, CANADA  
 K0A 1X0  
**Telephone:** (613) 623-8686  
**Fax:** (613) 623-8686  
**Internet:** <http://home.istar.ca/~bwaves/>

**Copyright:**  
 1996  
 1996

**Component Titles:**  
 • ZAP-A-GRAPH (English Macintosh Version 4.2)  
 • ZAP-A-GRAPH (English Windows Version 4.2)

**Est. WCP Price(s):**  
 \$79.00 (Single User)  
 \$299.00 (10-User Site Licence)  
 \$449.00 (40-User Site Licence)  
 \$79.00 (Single User)  
 \$299.00 (10-User Site Licence)  
 \$449.00 (40-User Site Licence)



Access: *The Teacher's Database*

- Access: The Teacher's Database (Macintosh Version 3.33)
- Access: The Teacher's Database (DOS/Windows Version 3.32)
- Canadian Math Database (Grades 11-12) (Catalog)

**Teacher Resource**

**Physical Characteristics:**

- Macintosh Version 3.33–One 3.5" Macintosh disc; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- DOS/Windows Version 3.32–Three 3.5" DOS/Windows discs; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Canadian Math Database (Grades 11-12) (Catalog)—428 pages, 3-ring binder; two 3.5" discs (Macintosh Version 1.1A) and two 3.5" discs (DOS/Windows Version 1.0A)



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
				✓	✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
			✓	✓	✓				✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓				

**Publisher:** EducAide Software  
**Distributor:** EducAide Software  
 3065 Richmond Parkway, Suite 102  
 RICHMOND, CA, USA 94806  
**Telephone:** (800) 669-9405 ; (510) 222-0600  
**Fax:** (510) 222-0165  
**Internet:** <http://www.educaide.com>

**Annotation:**

This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more conceptual blueprint. The technology assumed is that of the scientific calculator rather than the graphing calculator.

**Comments:**

- A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

**Cautions:**

- The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
- Windows 3.1 installations require 32-bit extensions before they run.

**System Requirements:**

- Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended).
- Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB.

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>		✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓		✓		

**Copyright:** 1997  
 1997  
 1998

**Component Titles:**

- Access: The Teacher's Database (Macintosh Version 3.33) \$495.00 (US)
- Access: The Teacher's Database (DOS/Windows Version 3.32) \$595.00 (US)
- Canadian Math Database (Grades 11-12) (Catalog) \$225.00 (US)



Addison-Wesley Mathematics 12  
 (Western Canadian Edition)

- Student Text
- Template and Data Kit  
 (Macintosh/Windows Version 1.0)

**Breadth Resource**

**Author(s):**  
 LeBlanc, D.

**Physical Characteristics:**

- Student Text—624 pages, hardcover
- Template and Data Kit—Teacher's Guide—35 pages, softcover; CD-ROM



**Annotation:**

The resource package closely maps the content of the Common Curriculum Framework. The framework's mathematical processes of communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization are highlighted through the use of icons in examples, explanations and activities. A conscientious effort was employed to relate the mathematical concepts developed to real-world situations. The student text makes good use of visual presentations, and the format is consistent throughout. Icons and headings are the primary means of navigation through the student text. This package supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and open-ended questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups, where appropriate, to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the student text.

• *Student Text*

The student text has nine chapters that relate mathematical content to topics from the Common Curriculum Framework strands. Each chapter focuses on a connection problem, entitled "Mathematical Modelling." Relevant mathematical material either precedes the problem, or follows the problem, depending on the chapter. An inquiry approach is used to discover concepts in the development of the outcomes. Practice exercises are included. Applications and problem-solving questions use real-life examples. Major examples that incorporate graphing calculators and computer software occur throughout the resource. Further attention to the mathematical processes is found in the other components of the resource package.

• *Template and Data Kit*

This resource includes four extensive databases—cars, crimes, food manufacturing and NBA statistics; templates for the spreadsheet activities found in the student text; and a teacher's guide. The teacher's guide contains spreadsheet and database tutorials, additional technology activities, and teaching notes and answers. The activities address a wide variety of outcomes.

**Comments:**

- The period of a sine or cosine function (specific outcome P8–8) is covered twice, once using the equation  $y = \sin kx$  (period =  $2\pi/k$ ) for irrational periods and once using  $y = \sin(2\pi/T)x$  for rational periods.

**Cautions:**

- Standard deviation of a sample mean for large samples is not addressed.

**System Requirements:**

Template and Data Kit

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, ClarisWorks.
- Windows 3.1: 386DX/33 MHz minimum, 4 MB RAM (8 MB recommended), either Microsoft Works or ClarisWorks. Windows 95 recommended.
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM (16 MB recommended), mouse, either ClarisWorks, Microsoft Works or Microsoft Excel/Access.

**Audience:** General/Gifted

**Course(s):**

	10	11	12
Applied Mathematics			
Pure Mathematics			✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Cluster(s):**

Applied	A1	A2	A3	A4	A5	A6	A7	A8	A9

Common	C1	C2	C3	C4	C5	C6
						✓

Pure	P1	P2	P3	P4	P5	P6	P7	P8	P9
						✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

**Publisher:** Addison-Wesley Longman Ltd.  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** ISBN: 1999 020134629X  
 1999 020134632X (Pkg.)  
**Component Titles:** • Student Text \$51.75  
 • Template and Data Kit (Macintosh/Windows Version 1.0) \$132.98



Exploring Advanced Algebra with the TI-83

**Depth Resource**

**Author(s):**  
Kelly, B.

**Physical Characteristics:**  
80 pages, coilbound



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
						✓			

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓					✓		

**Annotation:**

This resource contains exercises and investigations that supplement the following topics: sequences, fractals, combinatorics, probability, linear systems, matrices and linear programming.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			✓
<b>Pure Mathematics</b>	✓		✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						✓

**Publisher:** Addison-Wesley Longman Ltd.

**Distributor:** Addison-Wesley Longman Pearson Education  
26 Prince Andrew Place  
P.O. Box 580  
DON MILLS, ON, CANADA M3C 2T8

**Telephone:** (800) 387-8028; (416) 447-5101

**Fax:** (800) 465-0536; (416) 443-0948

**Internet:** <http://www.awl.com/canada>

**Copyright:** 1998

**ISBN:** 1895997100

**Title:**

Exploring Advanced Algebra with the TI-83

**Est. WCP Price(s):**

\$15.71



GrafEq (Macintosh Version 2.06)

**Depth Resource**

**Physical Characteristics:**

Two 3.5" discs and a manual—  
approximately 150 pages—all in a 3-ring  
binder



**Availability in Alternate Format(s) for  
Students Who Are Visually Impaired or Print  
Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
					✓				✓

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓		✓		✓	✓

**Straud(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓					

**Publisher:** Pedagogy Software  
**Distributor:** Pedagogy Software  
 4446 Lazelle Avenue  
 TERRACE, BC, CANADA V8G 1R8  
**Telephone:** (250) 638-8606  
**Fax:** (250) 638-8606  
**Internet:** <http://www.cafe.net/peda>

**Copyright:**  
1998

**Title:**  
GrafEq (Macintosh Version 2.06)

**Est. WCP Price(s):**  
 \$94.50 (Single User)  
 \$300.00 (Up to 30  
 computer site licence)  
 \$350.00 (31-40  
 computer site licence)  
 \$400.00 (41-50  
 computer site licence)  
 \$450.00 (51-60  
 computer site licence)  
 \$500.00 (61 or more  
 computer site licence)

**Annotation:**

This is a relation plotting tool that enables a student to graph functions, from implicit and explicit definitions, and from relations as well as inequalities. There is the ability to save and print graphs, and to integrate these graphs into other documents.

**Comments:**

- The ability to print graphs is an advantage.
- The ability to blend colours is an advantage, when graphing systems of inequalities.
- Limited on screen help is provided.
- Inequalities of the form  $<$  and  $\leq$  cannot be distinguished from the display.

**System Requirements:**

- Macintosh: System 6.5 or higher (System 7 or higher recommended), 2 MB RAM (4 MB recommended).

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓



*Green Globbs & Graphing Equations*

- Green Globbs & Graphing Equations (Macintosh Version 2.3)
- Green Globbs & Graphing Equations (Windows Version 2.3)

**Depth Resource**

**Physical Characteristics:**

- Macintosh Version—One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder
- Windows Version—One 3.5" disc and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
	✓	✓				

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓				✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
			✓	✓		✓	✓		

**Annotation:**

This resource graphs different forms of linear, quadratic, polynomial and trigonometric relations. A second program provides a graph and requires the student to enter the equation. There are also two games that act as motivational tools. Five graphs can be displayed simultaneously. The resource is user-friendly.

**Comments:**

- A teacher's guide accompanies the disc and provides ideas and worksheets.
- Natural log is the only logarithm that can be graphed, and  $y = e^x$  is the only exponential function that can be graphed.
- Asymptotes are not shown.
- Intercepts are approximations.

**System Requirements:**

- Macintosh: System 6.0.5 or higher (System 7 recommended), 1 MB RAM.
- Windows 3.1: Windows 3.1, 486/25 MHz or better, 2 MB RAM; 256 colour monitor.
- Windows 95: 486DX/50 MHz or higher (Pentium recommended), 4 MB RAM, 256 colour monitor.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓		
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

**Publisher:** Sunburst Communications

**Distributor:** Gage Educational Publishing Co.  
164 Commander Boulevard  
SCARBOROUGH, ON, CANADA M1S 3C7

**Telephone:** (800) 667-1115 ; (416) 293-8464

**Fax:** (416) 293-0846

**Internet:** <http://www.cornerstone.gagepub.ca>

**Copyright:**

1996

1997

**Component Titles:**

- Green Globbs & Graphing Equations (Macintosh Version 2.3)
- Green Globbs & Graphing Equations (Windows Version 2.3)

**Est. WCP Price(s):**

\$129.95

\$129.95

**BEST COPY AVAILABLE**



**An Introduction to the TI-82 Graphing Calculator**

**Teacher Resource**

**Author(s):**  
Govatos, M.

**Physical Characteristics:**  
48 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This resource gives clear examples and steps for using the TI-82 graphing calculator in a variety of areas. It is a teacher resource of blackline masters that can be reproduced for student use or reference.

**Comments:**

- The resource can be used with the TI-83 graphing calculator as well.
- There is some use of imperial units (p. 40).

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Publisher:** Frank Schaffer Publications Inc.  
**Distributor:** Frank Schaffer Publications Inc.  
 23740 Hawthorne Boulevard  
 TORRANCE, CA, USA 90505  
**Telephone:** (800) 609-1735  
**Fax:** (800) 837-7260 ; (310) 794-5468  
**Internet:** <http://www.frankschaffer.com/fmtpage.html>

**Copyright:** 1998  
**ISBN:** 0768200067

**Title:**  
 An Introduction to the TI-82 Graphing Calculator

**Est. WCP Price(s):**  
 \$18.95 (US)



*Explorations Series*  
**Modeling Motion: High School Math Activities with the CBR**

**Depth Resource**

**Author(s):**  
Antinone, L.; Gough, S.

**Physical Characteristics:**  
114 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6
		✓			✓	

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓				✓			

**Annotation:**

This resource includes investigation activities that use the calculator-based ranger (CBR) to obtain data from physical phenomena. Using a TI-82 or TI-83 graphing calculator, students obtain a mathematical equation to describe the physical event(s). Activities are well-suited to specific outcomes. Topics include arithmetic and geometric growth, systems of linear equations in two variables, quadratic functions, and exponential functions. The resource provides practice data to enable students to complete the investigations without a CBR, if necessary.

**Comments:**

- The instructions are only for use with a TI-82 or TI-83 graphing calculator.
- The intended scope of instruction requires a CBR.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓	✓				✓	

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309140

**Title:** Modeling Motion: High School Math Activities with the CBR

**Est. WCP Price(s):** \$16.83



**Secondary Math**  
**Secondary Math Lab Toolkit**  
(Macintosh / Windows Version 1.1)

**Depth Resource**

**Physical Characteristics:**

One CD-ROM and a User's Guide—128 pages, bound—all in a 3-ring binder



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9
								✓	✓

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
		✓		✓	✓	✓	✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓	✓	✓		✓	✓	✓	✓

**Publisher:** Sunburst Communications  
**Distributor:** Gage Educational Publishing Co.  
 164 Commander Boulevard  
 SCARBOROUGH, ON, CANADA M1S 3C7  
**Telephone:** (800) 667-1115 ; (416) 293-8464  
**Fax:** (416) 293-0846  
**Internet:** <http://www.cornerstone.gagepub.ca>

**Annotation:**

The toolkit contains graphical tools for algebra, geometry, data analysis and probability. A text editor, function editor, spreadsheet editor and matrix editor are linked. The graphs are clear and may be transformed in a variety of ways. Probability models use dice and spinners. A visual representation of algebra tiles is included.

**Comments:**

- Experienced users will be able to use the resource more profitably than beginners.
- There is a high level of linking among all tools within the toolkit.
- The resource provides methods of transforming relations only from within the symbolic editor, but not from graphical forms.
- The algebra tiles representation is very limited and is harder to use and less flexible than the concrete tiles.
- The tutorial materials may be insufficient for users of the toolkit.

**System Requirements:**

- Macintosh: minimum of a Macintosh LC II, with 12 MB RAM total and System 7.0 or higher, 256 colour 13-inch monitor, 6 MB hard disk space.
- Windows 3.1: Windows 3.1 or 3.11, 486/33 MHz or higher, 12 MB RAM, VGA 13-inch 256 colour monitor, 6 MB hard disk space.
- Windows 95: 486/50 MHz, 12 MB RAM, hard drive, VGA 13-inch 256 colour monitor, 6 MB hard disk space. The use of a Pentium processor with 16 MB RAM is recommended.

**Audience:** General

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visual
					✓	✓

**Copyright:** 1998  
**ISBN:** 0134330528 (User's Guide)  
**Title:** Secondary Math Lab Toolkit (Macintosh/Windows Version 1.1)  
**Est. WCP Price(s):** \$129.95



**Annotation:**  
This resource gives detailed instructions on the use of a TI-83 graphing calculator in statistics and probability. It uses real-world applications to illustrate the technical steps taken to obtain necessary statistical information. The book contains an expansion of the information that would be found in a user's manual. There are notes to teachers with suggestions for the classroom. The resource covers material taught throughout the Statistics and Probability strand for grades 10, 11 and 12.

**Teacher Resource**

**Author(s):**  
Morgan, L.

**Physical Characteristics:**  
157 pages, softcover



**Audience:** Teacher

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓		✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
 P.O. Box 580  
 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309078  
**Title:** Statistics Handbook for the TI-83

**Est. WCP Price(s):**  
\$23.18



*Explorations Series*  
Using the TI-86 in Collegiate  
Mathematics: A Tutorial

**Teacher Resource**

**Author(s):**  
Dodd, F.; Cruthirds, J.

**Physical Characteristics:**  
177 pages, softcover



**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9

**Annotation:**

This resource gives instruction in the use of the TI-86 graphing calculator to perform matrix and statistics operations, to graph functions, and to solve systems of equations.

**Comments:**

- About 50% of this resource is extraneous to the WCP.

**Audience:** Teacher

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>	✓	✓	✓
<b>Pure Mathematics</b>	✓	✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓		✓	✓					

**Publisher:** Texas Instruments Incorporated  
**Distributor:** Addison-Wesley Longman Pearson Education  
 26 Prince Andrew Place  
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 DON MILLS, ON, CANADA M3C 2T8  
**Telephone:** (800) 387-8028; (416) 447-5101  
**Fax:** (800) 465-0536; (416) 443-0948  
**Internet:** <http://www.awl.com/canada>

**Copyright:** 1997  
**ISBN:** 1886309116

**Title:** Using the TI-86 in Collegiate Mathematics: A Tutorial

**Est. WCP Price(s):** \$22.44



**ZAP-A-GRAPH**

• ZAP-A-GRAPH (English Macintosh Version 4.2)



• ZAP-A-GRAPH (English Windows Version 4.2)

**Depth Resource**

**Physical Characteristics:**

- English Macintosh Version—One 3.5" disc and a manual—24 pages, softcover
- English Windows Version—One 3.5" disc and a manual—24 pages, softcover



**Availability in Alternate Format(s) for Students Who Are Visually Impaired or Print Disabled:**

- Access to Publisher's Disks for Production

**Cluster(s):**

<b>Applied</b>	A1	A2	A3	A4	A5	A6	A7	A8	A9

<b>Common</b>	C1	C2	C3	C4	C5	C6

<b>Pure</b>	P1	P2	P3	P4	P5	P6	P7	P8	P9
				✓					✓

**Annotation:**

This is a graphing program for use in learning and reviewing graphs of relations and functions. It uses transformations, derived functions and composition of functions. Relations can be input without recasting into function form.

**Comments:**

- This program is to be used after a great deal of graphing information is known.
- For solving equations, a graphing calculator may be more effective.

**System Requirements:**

- Macintosh: System 6.0 or higher, 1 MB RAM.
- Windows: Windows 3.1, 3.11 or Windows 95, 1 MB RAM.

**Audience:** General/Gifted

**Course(s):**

	10	11	12
<b>Applied Mathematics</b>			
<b>Pure Mathematics</b>		✓	✓

**Mathematical Process(es):**

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
				✓	✓	✓

**Strand(s)/Substrand(s):**

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
				✓			✓		

**Publisher:** Brain Waves Software Inc.  
**Distributor:** Brain Waves Software Inc.  
 R.R. #1  
 FITZROY HARBOR, ON, CANADA  
 K0A 1X0  
**Telephone:** (613) 623-8686  
**Fax:** (613) 623-8686  
**Internet:** <http://home.istar.ca/~bwaves/>

**Copyright:**  
 1996  
 1996

**Component Titles:**  
 • ZAP-A-GRAPH (English Macintosh Version 4.2)  
 • ZAP-A-GRAPH (English Windows Version 4.2)

**Est. WCP Price(s):**  
 \$79.00 (Single User)  
 \$299.00 (10-User Site Licence)  
 \$449.00 (40-User Site Licence)  
 \$79.00 (Single User)  
 \$299.00 (10-User Site Licence)  
 \$449.00 (40-User Site Licence)

# TITLE LISTING

TITLE/SERIES	COURSE(S)
<i>Acces: The Teacher's Database</i>  • Acces: The Teacher's Database (Macintosh Version 3.33)	Pure Mathematics 10
 • Acces: The Teacher's Database (DOS/Windows Version 3.32)	
 • Canadian Math Database (Grades 8-10) (Catalog)	
<i>Acces: The Teacher's Database</i>  • Acces: The Teacher's Database (Macintosh Version 3.33)	Pure Mathematics 11 / 12
 • Acces: The Teacher's Database (DOS/Windows Version 3.32)	
 • Canadian Math Database (Grades 11-12) (Catalog)	
<i>Addison-Wesley Applied Mathematics (Western Canadian Edition)</i>  • Applied Mathematics 10: Source Book	Applied Mathematics 10
 • Applied Mathematics 10: Project Book	
<i>Addison-Wesley Mathematics 10 (Western Canadian Edition)</i> • Student Text • Independent Study Guide • Teacher's Resource Book (includes CD-ROM) • Template and Data Kit (CD-ROM Version 1.0)  • Acces Exercise Database (Macintosh/Windows Version 1.0A)	Pure Mathematics 10
<i>Addison-Wesley Mathematics 11 (Western Canadian Edition)</i> • Student Text  • Independent Study Guide  • Teacher's Resource Book (includes Selected Solutions CD-ROM) (Macintosh/Windows Version)  • Template and Data Kit (Macintosh/Windows Version 1.0)	Pure Mathematics 11
<i>Addison-Wesley Mathematics 11 (Western Canadian Edition)</i>  • Template and Data Kit (Macintosh/Windows Version 1.0)	Applied Mathematics 11
<i>Addison-Wesley Mathematics 12 (Western Canadian Edition)</i>  • Student Text  • Template and Data Kit (Macintosh/Windows Version 1.0)	Pure Mathematics 12
<i>Balanced Assessment for the Mathematics Curriculum (High School)</i>  • Balanced Assessment: High School Assessment: Package 1  • Balanced Assessment: Advanced High School Assessment: Package 1	Applied Mathematics 10 Pure Mathematics 10

# TITLE LISTING

TITLE/SERIES	COURSE(S)
 Exploring Advanced Algebra with the TI-83	Applied Mathematics 10 / 11 / 12 Pure Mathematics 10 / 11 / 12
<i>The Geometer's Sketchpad</i> • The Geometer's Sketchpad (Macintosh Version 3) • The Geometer's Sketchpad (Windows Version 3.03)	Applied Mathematics 10 / 11 Pure Mathematics 10 / 11
 GrafEq (Macintosh Version 2.06)	Applied Mathematics 10 / 11 / 12 Pure Mathematics 10 / 11 / 12
<i>Explorations Series</i>  Graphing Calculator Activities for Enriching Middle School Mathematics	Applied Mathematics 10 Pure Mathematics 10
<i>Green Globes &amp; Graphing Equations</i>  • Green Globes & Graphing Equations (Macintosh Version 2.3)  • Green Globes & Graphing Equations (Windows Version 2.3)	Applied Mathematics 10 Pure Mathematics 10 / 11 / 12
 An Introduction to the TI-82 Graphing Calculator	Applied Mathematics 10 / 11 / 12 Pure Mathematics 10 / 11 / 12
<i>The Learning Equation: Mathematics 10 (Version 1.1)</i>  • CD-ROMs 1, 2, 3  • Student Refresher  • Teacher's Manual	Pure Mathematics 10
<i>MATHPOWER 10 (Western Edition)</i> • Student Text • Teacher's Resource • Computer Data Bank (Windows Version) • Computerized Assessment Bank (Windows Version)  • Blackline Masters  • Solutions	Pure Mathematics 10
<i>MATHPOWER 11 (Western Edition)</i>  • Student Text	Pure Mathematics 11
<i>Explorations Series</i>  Modeling Motion: High School Math Activities with the CBR	Applied Mathematics 10 / 11 Pure Mathematics 10 / 11 / 12

# TITLE LISTING

TITLE/SERIES	COURSE(S)
<i>Pure Mathematics 10 (Distance Learning Package)</i>  • Module 1: Statistics and Probability  • Module 2: Patterns and Relations  • Module 3: Algebra  • Module 4: Number Connections  • Module 5: Shape and Space  • Assignment Booklets: Modules 1-5  • Learning Facilitator's Manual	Pure Mathematics 10
<i>Secondary Math</i>  Secondary Math Lab Toolkit (Macintosh/Windows Version 1.1)	Applied Mathematics 12 Pure Mathematics 10 / 11 / 12
<i>Explorations Series</i>  Statistics Handbook for the TI-83	Applied Mathematics 10 / 11 / 12 Pure Mathematics 10 / 11 / 12
<i>Explorations Series</i>  Using the TI-86 in Collegiate Mathematics: A Tutorial	Applied Mathematics 10 / 11 / 12 Pure Mathematics 10 / 11 / 12
 A Visual Approach to Algebra	Applied Mathematics 10 Pure Mathematics 10
<i>ZAP-A-GRAPH</i>  • ZAP-A-GRAPH (English Macintosh Version 4.2)  • ZAP-A-GRAPH (English Windows Version 4.2)	Pure Mathematics 11 / 12



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